

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 30, 2006, 17:27:07 ; Search time 189 Seconds
(without alignments)
244.099 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589
Sequence: 1 MRCATRVSMILLVTSQCA.....CSRPPDGRYCSMDLNINF 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

A_Geneseq_21.*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*
9: geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	589	100.0	105	3	AAV66745
2	589	100.0	105	3	AAV66745
3	589	100.0	105	4	AAV66745
4	589	100.0	105	4	AAV66745
5	589	100.0	105	4	AAV66745
6	589	100.0	105	4	AAV66745
7	589	100.0	105	4	AAV66745
8	589	100.0	105	4	AAV66745
9	589	100.0	105	4	AAV66745
10	589	100.0	105	4	AAV66745
11	589	100.0	105	4	AAV66745
12	589	100.0	105	4	AAV66745
13	589	100.0	105	4	AAV66745
14	589	100.0	105	4	AAV66745
15	589	100.0	105	4	AAV66745
16	589	100.0	105	4	AAV66745
17	589	100.0	105	4	AAV66745
18	589	100.0	105	4	AAV66745
19	589	100.0	105	4	AAV66745
20	589	100.0	105	4	AAV66745
21	589	100.0	105	4	AAV66745
22	589	100.0	105	4	AAV66745
23	589	100.0	105	4	AAV66745
24	589	100.0	105	4	AAV66745

25	589	100.0	105	6	ABU13974	Abu13974 Human PRO
26	589	100.0	105	6	ABU08800	Abu08800 Human end
27	589	100.0	105	6	ABU081104	Abu081104 Human PRO
28	589	100.0	105	6	ABU07603	Abu07603 Human ZVE
29	589	100.0	105	6	ABU72559	Abu72559 Novel hum
30	589	100.0	105	6	ABU66804	Abu66804 Human PRO
31	589	100.0	105	6	ABU59885	Abu59885 Novel sec
32	589	100.0	105	6	ABU59308	Abu59308 Human sec
33	589	100.0	105	6	ABO26005	ABO26005 Human PRO
34	589	100.0	105	6	ABO25075	ABO25075 Human sec
35	589	100.0	105	6	ABU82130	ABU82130 Novel hum
36	589	100.0	105	6	ABU59014	ABU59014 Human sec
37	589	100.0	105	6	ABU92392	ABU92392 Novel hum
38	589	100.0	105	6	ABU59457	ABU59457 Novel hum
39	589	100.0	105	6	ABU67080	ABU67080 Human sec
40	589	100.0	105	6	ABU92223	ABU92223 Novel hum
41	589	100.0	105	6	ABU10929	ABU10929 Human PRO
42	589	100.0	105	6	ABU81681	ABU81681 Novel hum
43	589	100.0	105	6	ABU86620	ABU86620 Human sec
44	589	100.0	105	6	ABO34134	ABO34134 Human PRO
45	589	100.0	105	6	ADA45989	ADA45989 Novel hum

ALIGNMENTS

RESULT 1	AAV66745	standard; protein; 105 AA.
AC	AAV66745;	
DT	05-APR-2000 (first entry)	
DE	Membrane-bound protein PRO1186.	
DE	Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand; pharmaceutical; receptor immunoadhesin; gene mapping.	
OS	Homo sapiens.	
PN	W09963088-A2.	
XX	09-DEC-1999.	
XX	02-JUN-1999;	99MO-US012252.
XX	02-JUN-1998;	98US-0087607P.
XX	02-JUN-1998;	98US-0087609P.
XX	02-JUN-1998;	98US-0087599P.
XX	03-JUN-1998;	98US-0087827P.
XX	04-JUN-1998;	98US-0088021P.
XX	04-JUN-1998;	98US-0088025P.
XX	04-JUN-1998;	98US-0088028P.
XX	04-JUN-1998;	98US-0088029P.
XX	04-JUN-1998;	98US-0088030P.
XX	04-JUN-1998;	98US-0088033P.
XX	04-JUN-1998;	98US-0088326P.
XX	05-JUN-1998;	98US-0088167P.
XX	05-JUN-1998;	98US-0088202P.
XX	05-JUN-1998;	98US-0088212P.
XX	05-JUN-1998;	98US-0088217P.
XX	09-JUN-1998;	98US-0088655P.
XX	10-JUN-1998;	98US-0088722P.
XX	10-JUN-1998;	98US-0088730P.
XX	10-JUN-1998;	98US-0088734P.
XX	10-JUN-1998;	98US-0088738P.
XX	10-JUN-1998;	98US-0088740P.
XX	10-JUN-1998;	98US-0088741P.
XX	10-JUN-1998;	98US-0088742P.
XX	10-JUN-1998;	98US-0088810P.
XX	10-JUN-1998;	98US-0088811P.
XX	10-JUN-1998;	98US-0088824P.

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PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 15-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089589P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0080445P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090538P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090693P.
PR 25-JUN-1998; 98US-0090694P.
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PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091358P.
PR 01-JUL-1998; 98US-0091360P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092162P.
PR 10-JUL-1998; 98US-0092472P.
PR 30-JUL-1998; 98US-0093339P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.

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PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 11-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097611P.
PR 25-AUG-1998; 98US-0097951P.
PR 25-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098025P.
PR 16-SEP-1998; 98US-0100634P.
PR 12-JAN-1999; 98US-0115565P.

```

(GETH) GENENTECH INC.

Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
Wood WI, Yuan J;

WPI: 2000-072883/06.

N-PSDB; AA265091.

Membrane-bound proteins and related nucleotide sequences.

Claim 12; Fig 266; 822pp; English.

The invention provides membrane-bound PRO polypeptides and
CC polynucleotides encoding them. The PRO sequences of the invention were
CC identified based on extracellular domain homology screening. The PRO
CC sequences have homology with proteins including LDL receptors, TIE
CC ligands and various enzymes. The membrane-bound proteins and receptor
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
CC immunoadhesins, for instance, can be used as therapeutic agents to block
CC receptor-ligand interactions. The membrane-bound proteins can also be
CC employed for screening of potential peptide or small molecule inhibitors
CC of the relevant receptor/ligand interaction. The PRO encoding sequences
CC are useful as hybridization probes, in chromosome and gene mapping and in
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences will
CC also be useful for the preparation of PRO polypeptides, especially by
CC recombinant techniques

Sequence 105 AA:

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.8e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGATVSIIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWLRGLRMCTPLGRGEECC 60
|||||

Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCSAISLWRLGRLMCTPLGRRESEC 60
 QY 61 HPGSHKVPFRKRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105
 Db 61 HPGSHKVPFRKRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105

RESULT 2
 AAB18453 ID AAB18453 standard; protein; 105 AA.
 AC AAB18453;
 DE 15-JAN-2001 (first entry)
 XX A human TANGO 266 polypeptide.
 XX TANGO 266; TANGO 216; TANGO 261; TANGO 262; TANGO 267;
 KW cellular proliferation; cellular differentiation; cellular adhesion;
 KW von Willebrand factor-associated disorder; cell trafficking; cancer;
 KW hematopoietic associated disease; atelectasis; pulmonary congestion;
 KW oedema; emphysema; chronic bronchitis; bronchial asthma; bronchiectasis;
 KW intestinal disorder; spleen associated disease; renal disorder;
 KW cardiovascular disorder; ischemic heart disease; hydrocephalus;
 KW brain herniation; iatrogenic disease; inflammation; meningitis;
 KW Alzheimer's Disease; cerebral toxoplasmosis; Parkinson's disease;
 KW multiple sclerosis; hydrocephalus; encephalitis; hepatic disorder.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT Peptide 1..19
 FT Protein /note= "signal sequence"
 FT Protein 20..106
 FT Protein /note= "mature protein"
 XX W0200052022-AL.
 XX 08-SEP-2000.
 PD 01-MAR-2000; 2000WO-US005226.
 PF 01-MAR-1999; 99US-0122458P.
 XX (MILL-) MILLENNIUM PHARM INC.
 PA Barnes TM, Holtzman DA, Sharp JD, Fraser CC;
 PI WPI, 2000-579269/54.
 XX N-PSDB; AAA75155.
 DR Novel human and murine secreted proteins designated TANGO 216, 261, 262,
 PT 266 and 267 useful as modulating agents of cellular processes, e.g. for
 PT treating cancer.
 XX Claim 8; Fig 14; 175pp; English.
 PS The present sequence represents a human TANGO 266 polypeptide. The
 XX specification also describes TANGO 262, TANGO 216, TANGO 261, and TANGO
 CC 267. The TANGO polypeptides can be used to modulate cellular
 CC proliferation, modulate cellular differentiation and/or modulate cellular
 CC adhesion. The proteins can be used to treat any von Willebrand factor-
 CC associated disorder, regulate extracellular matrix structuring, cellular
 CC adhesion, and cell trafficking and/or migration, modulate cellular
 CC interactions, modulate cell adhesion in proliferative disorders, such as
 CC cancer, modulate the proliferation, differentiation, and/or function of
 CC cells that appear in the bone marrow, and leukocytes, treat bone marrow,
 CC blood and hematopoietic associated diseases and disorders, atelectasis,
 CC pulmonary congestion or oedema, emphysema, chronic bronchitis, bronchial
 CC asthma and bronchiectasis, intestinal disorders, spleen associated
 CC diseases, modulate renal disorders, treat cardiovascular disorders such
 CC as ischemic heart disease, modulate the proliferation, differentiation,
 CC and/or function of bone and cartilage cells and to treat bone and/or

CC cartilage associated diseases or disorder. They may also be used to treat
 CC disorders associated with the ovaries, cerebral oedema, hydrocephalus,
 CC brain herniations, iatrogenic disease, inflammation, bacterial and viral
 CC meningitis, Alzheimer's Disease, cerebral toxoplasmosis, Parkinson's
 CC disease, multiple sclerosis, brain cancer, hydrocephalus and
 CC encephalitis, and treat hepatic disorders
 XX Sequence 105 AA;
 SQ

Query Match 100.0%; Score 589; DB 3; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.8e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCSAISLWRLGRLMCTPLGRRESEC 60
 Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCSAISLWRLGRLMCTPLGRRESEC 60
 QY 61 HPGSHKVPFRKRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105
 Db 61 HPGSHKVPFRKRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105

RESULT 3
 AAB70148 ID AAB70148 standard; protein; 105 AA.
 XX AAB70148;
 AC AAB70148;
 DE 29-MAY-2001 (first entry)
 XX Human G protein-coupled receptor protein-related sequence #4.
 DE Human G protein-coupled receptor protein; nocotropic; neuroprotective;
 XX hypotensive; orexigenic; anti-allergic; anti-anginal; antimicrobial;
 KW antibacterial; gene therapy; Alzheimer's disease; hypertension; anorexia;
 KW allergy; angina pectoris; infection; MRSA;
 KW multiple resistant Staphylococcus aureus.
 XX Homo sapiens.
 OS Homo sapiens.
 XX W0200116309-AL.
 PN 08-MAR-2001.
 PD 24-AUG-2000; 2000WO-JP005685.
 PF 27-AUG-1999; 99JP-00241531.
 XX 18-JUL-2000; 2000JP-00217474.
 PR (TAKE) TAKEDA CHEM IND LTD.
 PA Watanabe T, Terao Y, Shintani Y;
 PI WPI, 2001-226684/23.
 DR New human brain-originated guanosine triphosphate protein-coupled
 PT receptor protein, its salt and encoded gene, useful in (gene) diagnosis
 PT and development of preventives and remedies for Alzheimer's disease,
 PT hypertension and anorexia.
 XX Example 4; Page 113; 119pp; Japanese.
 PS The present sequence is provided in a specification relating to a protein
 XX or its salt with an amino acid sequence identical or substantially
 CC similar to a fully defined sequence of 393 amino acids as given in the
 CC specification. The protein is useful in gene diagnosis and development of
 CC preventives and remedies for diseases associated with dysfunction of the
 CC protein, e.g. Alzheimer's disease, hypertension, anorexia, allergy,
 CC angina pectoris and infections (e.g. multiple resistant Staphylococcus
 CC aureus). The proteins and DNA encoding the proteins are also useful for,
 CC the treatment of these diseases by gene therapy
 XX Sequence 105 AA;
 SQ

Query Match 100.0%; Score 589; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.8e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWLRGLRMCTPLRGREGEC 60
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWLRGLRMCTPLRGREGEC 60

Qy 61 HPGSHKVPFPRKRXKHTCPCLPNLLCSRFPDGRYRCMDLKNINF 105
Db 61 HPGSHKVPFPRKRXKHTCPCLPNLLCSRFPDGRYRCMDLKNINF 105

RESULT 4
AAB68427
ID AAB68427 standard; protein; 105 AA.
XX
AC AAB68427;
XX
DT 23-JUL-2001 (first entry)
XX
DE Amino acid sequence of a human Zven2 polypeptide.
XX
KM Zven1; 3p21.1; 3p14.3; Zven2; small cell lung cancer; wound healing;
KM antitumour; antiinflammatory; necrosis; tissue growth; digestive enzyme;
KM cellular differentiation; gastrointestinal cell contractility;
KM gastrointestinal motility; inflammation; hypermotility; diarrhoea;
KM Crohn's disease.
XX
OS Homo sapiens.
XX
PN WO200136465-A2.
XX
PD 25-MAY-2001.
XX
PF 14-NOV-2000; 2000MO-US031278.
XX
PR 16-NOV-1999; 99US-00442164.
PR 25-FEB-2000; 2000US-00511879.
PR 19-APR-2000; 2000US-00552203.
PR 07-JUN-2000; 2000US-0210332P.
XX
PA (ZYMO) ZYMOGENETICS INC.
XX
PI Sheppard PO, Bishop PD, Whitmore TE, Thompson PP;
XX
XX WPI; 2001-355611/37.
XX
DR N-PSDB; AAF85427.
XX
PT Novel isolated Zven polypeptide useful for inhibiting proliferation of
PT tumor cells, for treating small cell cancer of lung, to promote wound
PT healing, and for treating Crohn's disease and diarrhoea.
XX
XX
XX Claim 27; Page 4; 98pp; English.

The present sequence represents a human Zven2 polypeptide. The specification also describes Zven1. The Zven1 gene is present on chromosome 3p21.1-3p14.3. The specification also describes Zven2. Zven polynucleotides and polypeptides are useful in veterinary and human therapeutics, for treating small cell cancer of the lung, to promote wound healing, to prevent or to treat an adverse reaction of the skin to a skin-sensitizing agent or a skin-irritating agent, to stimulate the immune system of an immunocompromised individual, as antitumour agents, as antiinflammatory agents, as agents to regulate regeneration or remodeling of tissue, as agents to modulate necrosis or tissue growth developmental arrest, to inhibit proliferation of tumour cells, cellular differentiation and necrosis, to treat disorders associated with gastrointestinal cell contractility, secretion of digestive enzymes and acids, gastrointestinal motility, recruitment of digestive enzymes, inflammation, and conditions associated with hypermotility such as diarrhoea and Crohn's disease

SQ Sequence 105 AA;
Query Match 100.0%; Score 589; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.8e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWLRGLRMCTPLRGREGEC 60
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWLRGLRMCTPLRGREGEC 60

Qy 61 HPGSHKVPFPRKRXKHTCPCLPNLLCSRFPDGRYRCMDLKNINF 105
Db 61 HPGSHKVPFPRKRXKHTCPCLPNLLCSRFPDGRYRCMDLKNINF 105

RESULT 5
AAU12406
ID AAU12406 standard; protein; 105 AA.
XX
AC AAU12406;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human PRO1186 polypeptide sequence.
XX
KM Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
KM prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
KM ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
KM A-peptide; factor VIIa; gene therapy.
XX
OS Homo sapiens.
XX
PN WO200140466-A2.
XX
PD 07-JUN-2001.
XX
PF 01-DEC-2000; 2000MO-US032678.
XX
PR 01-DEC-1999; 99MO-US028301.
PR 01-DEC-1999; 99MO-US028634.
PR 02-DEC-1999; 99MO-US028551.
PR 02-DEC-1999; 99MO-US028564.
PR 02-DEC-1999; 99MO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 16-DEC-1999; 99MO-US030095.
PR 20-DEC-1999; 99MO-US030911.
PR 20-DEC-1999; 99MO-US030999.
PR 30-DEC-1999; 99MO-US031243.
PR 30-DEC-1999; 99MO-US031274.
PR 05-JAN-2000; 2000MO-US000219.
PR 06-JAN-2000; 2000MO-US000376.
PR 11-FEB-2000; 2000MO-US003565.
PR 18-FEB-2000; 2000MO-US004341.
PR 18-FEB-2000; 2000MO-US004342.
PR 24-FEB-2000; 2000MO-US004414.
PR 24-FEB-2000; 2000MO-US004914.
PR 24-FEB-2000; 2000MO-US005004.
PR 01-MAR-2000; 2000MO-US005601.
PR 03-MAR-2000; 2000MO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 10-MAR-2000; 2000MO-US006319.
PR 15-MAR-2000; 2000MO-US006884.
PR 20-MAR-2000; 2000MO-US007377.
PR 21-MAR-2000; 2000MO-US007532.
PR 21-MAR-2000; 2000MO-US008439.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.
PR 30-MAY-2000; 2000MO-US014941.
PR 02-JUN-2000; 2000MO-US015264.
PR 05-JUN-2000; 2000US-0209832P.
PR 28-JUL-2000; 2000MO-US020710.
PR 11-AUG-2000; 2000MO-US022031.

PR 23-AUG-2000; 2000OWO-US023252.
 PR 24-AUG-2000; 2000OWO-US0232328.
 PR 08-NOV-2000; 2000OWO-US030952.
 PR 10-NOV-2000; 2000OWO-US030873.
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Betesini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerlstein ME, Goddard A, Godowski PJ, Guney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX
 DR MPI; 2001-408281/43.
 DR N-PSDB; AAS21478.
 XX
 PT Isolated , secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
 PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
 PT breast, prostate, cervical.
 XX
 PS Claim 12; Fig 470; 813pp; English.
 XX
 XX AAU12172-AAU12446 represent novel human secretory and transmembrane PRO
 CC polypeptides. The PRO polypeptides are useful to detect other PRO
 CC polypeptides, to link bioactive molecules to cells expressing PRO
 CC polypeptides, to modulate biological activities of cells expressing PRO
 CC polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC of the 275 sequences expression in a cell sample to that in a control sample. Some
 CC of the 275 sequences are also useful to stimulate the release of tumour
 CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
 CC differentiation of chondrocytes, the proliferation or gene expression in
 CC pericyte cells, the release of proteoglycans from cartilage, the
 CC proliferation of inner ear utricular supporting cells or of T-
 CC lymphocytes, the release of a cytokine from peripheral blood monocytes
 CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
 CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
 CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
 CC VIIA. The PRO polypeptides can be used in assays to identify molecules
 CC involved in binding interactions. The polynucleotides encoding PRO
 CC polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy
 XX
 XX Sequence 105 AA;
 SQ
 Query Match 100.0%; Score 589; DB 4; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.8e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRGATRVSIMLLTVSDCAVITGACERDVQCGAGTCCASISIMLGLRMCTPLRGREGEC 60
 DB 1 MRGATRVSIMLLTVSDCAVITGACERDVQCGAGTCCASISIMLGLRMCTPLRGREGEC 60
 QY 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPPDRGRYCSMDLNKINF 105
 DB 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPPDRGRYCSMDLNKINF 105
 RESULT 6
 AAB53096
 ID AAB53096 standard; protein; 105 AA.
 XX
 AC AAB53096;
 XX
 DT 28-FEB-2001 (first entry)
 XX
 DE Human angiogenesis-associated protein PRO1186, SEQ ID NO:165.
 XX
 KW Human; angiogenesis-associated protein; PRO; endothelial cell growth;
 KW cardiac hypertrophy; cardiovascular disorder; endothelial disorder;
 KW angiogenic disorder; atherosclerosis; osteoporosis; hypertension;
 KW myocardial infarction; diabetic retinopathy; rheumatoid arthritis;
 KW Croun's disease; psoriasis; endometriosis; ulcer; wound healing; cancer;
 KW Alzheimer's disease; Huntington's disease; stroke; drug screening;

KM	gene therapy; transgenic animal.
XX	
OS	Homo sapiens.
XX	
PN	WO200053753-A2.
XX	
PD	14-SEP-2000.
XX	
PF	05-JAN-2000; 2000MO-US000219.
XX	
XX	08-MAR-1999; 99MO-US005028.
PR	12-MAR-1999; 99US-0123957R.
PR	14-MAY-1999; 99US-0134287R.
PR	02-JUN-1999; 99MO-US01225Z.
PR	23-JUN-1999; 99US-0141037R.
PR	20-JUL-1999; 99US-0144758R.
PR	26-JUL-1999; 99US-0145698R.
PR	01-SEP-1999; 99MO-US020111.
PR	08-SEP-1999; 99MO-US020594.
PR	15-SEP-1999; 99MO-US021099.
PR	15-SEP-1999; 99MO-US021547.
PR	05-OCT-1999; 99MO-US023089.
PR	30-NOV-1999; 99MO-US028313.
PR	30-NOV-1999; 99MO-US028409.
PR	02-DEC-1999; 99MO-US028564.
PR	02-DEC-1999; 99MO-US028565.
XX	
PA	(CETH) GENENTECH INC.
XX	
PI	Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Goddard A;
PI	Godowski PJ, Gurney AL, Hillen KJ, Kuo SS, Mark MR, Masters SA;
PI	Padani NF, Pitti RM, Watanabe CK, Williams PM, Wood WI;
XX	
DR	WPI: 2001-050793/10.
XX	
DR	N-PSDB; AAC97496.
PT	
PT	New isolated nucleic acid for producing a PRO polypeptide, analyzing
PT	genetic disorders and treating cardiovascular, endothelial or angiogenic
PT	disorders, such as atherosclerosis, wounds or cancer.
XX	
PS	Claim 69; Fig 66; 293pp; English.
XX	
XX	The invention relates to novel human angiogenesis-associated proteins
CC	designated PRO proteins (AAB53064-B53097), and to nucleic acids encoding
CC	PRO proteins. The invention also relates to vectors and host cells
CC	comprising a PRO nucleic acid, the recombinant production of a PRO
CC	protein, PRO antibodies specific for a PRO protein, fusion proteins
CC	comprising a PRO protein, agonists or antagonists of a PRO protein, and
CC	compounds which inhibit the expression of a PRO gene. The invention
CC	additionally encompasses methods of identifying modulators of PRO
CC	expression or activity; diagnosing a cardiovascular, endothelial or
CC	angiogenic disorder, or a susceptibility to such a disorder by detecting
CC	mutations in a PRO gene, or the expression level of a PRO gene within a
CC	particular tissue; treating a cardiovascular, endothelial or angiogenic
CC	disorder via the administration of a PRO protein, PRO nucleic acid, or
CC	PRO agonist or antagonist; a retroviral gene therapy vector comprising a
CC	PRO nucleic acid; and methods of inhibiting or stimulating endothelial
CC	cell growth, cardiac hypertrophy or PRO-induced angiogenesis via the
CC	administration of a PRO protein, or an agonist or antagonist thereof. PRO
CC	nucleic acids, PRO proteins, antibodies against PRO proteins, PRO
CC	agonists and PRO antagonists may be used as therapeutic agents to treat
CC	cardiovascular, endothelial or angiogenic disorders, such as
CC	atherosclerosis, osteoporosis, myocardial infarction, hypertension,
CC	diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis,
CC	diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis,
CC	disease, or stroke. PRO nucleic acids are additionally useful in the
CC	recombinant production of PRO proteins, as hybridisation probes to screen
CC	libraries to isolate cDNAs with sequence identity to PRO proteins, to map
CC	genes encoding PRO proteins, to analyse genetic disorders, and in gene
CC	therapy. PRO nucleic acids can also be used to produce transgenic animals
CC	useful for the development and screening of potential therapeutic agents.
XX	The present sequence represents a PRO protein of the invention
XX	

PR 26-JUL-1999; 99US-0145698P.
 RR 05-JAN-2000; 2000MO-US000219.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Hillan KJ, Napier MA, Watanabe CK, Wood WJ,
 XX WPI; 2001-071078/08.
 DR N-PSDB; AAC84469.
 XX
 PT Compositions for inhibiting neoplastic cell growth and treating tumor, a
 PT cancer, comprises novel PRO1186 or PRO184 polypeptides or its agonist.
 XX
 PS Claim 31; Fig 2; 104pp; English.
 XX
 CC The invention provides PRO1186 and PRO184 polypeptides that can be used
 CC for the inhibition of neoplastic cell growth and for treating tumors.
 CC The PRO polypeptides can be expressed by strand recombinant
 CC methodology. The PRO polypeptides or their agonists are useful for
 CC inhibition of neoplastic cell growth and for treating tumors, cancers
 CC such as breast, ovarian, renal, colorectal, uterine, prostate, lung,
 CC bladder or central nervous system cancers or melanoma and leukemia. The
 CC present sequence represents the human PRO1186 polypeptide (encoding cDNA
 CC clone ID: DNA60621-1516)
 XX
 SQ Sequence 105 AA;
 Query Match 100.0%; Score 589; DB 4; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.8e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWLRGLMCTPLGRGESEC 60
 DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWLRGLMCTPLGRGESEC 60
 QY 61 HPGSHKVPFPRKRRKHTCPCLPNILCSRFPDGRYRCSMDLNKINF 105
 DB 61 HPGSHKVPFPRKRRKHTCPCLPNILCSRFPDGRYRCSMDLNKINF 105
 RESULT 9
 AAB48067
 ID AAB48067 standard; protein; 105 AA.
 XX
 AC AAB48067;
 XX
 DT 19-MAR-2001 (first entry)
 XX
 DE Human extracellular signaling molecule (EXCS) (ID 2006548CD1).
 XX
 KW Extracellular signaling molecule; EXCS; anti-inflammatory; human;
 KW immunosuppressive; cytostatic; neuroprotective; gastrointestinal;
 KW vituicide; antibacterial; anti-HIV; human immunodeficiency virus;
 KW antifertility; cerebroprotective; nootropic; antitumor; antifungal;
 KW anticonvulsant; tranquilizer; neuroleptic; vasodilator; gynecological;
 KW keratolytic; procoagulant; gene therapy.
 KW
 XX Homo sapiens.
 OS
 XX
 PN WO200070049-A2.
 XX
 PD 23-NOV-2000.
 XX
 PF 19-MAY-2000; 2000MO-US013975.
 XX
 PR 19-MAY-1999; 99US-0134949P.
 PR 15-JUL-1999; 99US-0144270P.
 PR 30-JUL-1999; 99US-0146700P.
 PR 04-OCT-1999; 99US-0157508P.
 XX
 PA (INCY-) INCYTE GENOMICS INC.
 XX
 PI Tang YT, Yue H, Lal P, Burford N, Bandman O, Baughn MR;

PI Azimzai Y, Lu DAM, Patterson C;
 XX
 DR WPI; 2001-025021/03.
 DR N-PSDB; AAC84303.
 XX
 PT New human extracellular signaling nucleic acids and polypeptides useful
 PT for diagnosing, treating and preventing infections and gastrointestinal,
 PT neurological, reproductive, and autoimmune/inflammatory disorders.
 XX
 PS Claim 1; Page 89; 114pp; English.
 XX
 CC The invention provides human extracellular signaling molecules (EXCS) and
 CC polynucleotides which identify and encode EXCS. EXCS can be expressed by
 CC standard recombinant methodology. The amino acid and nucleic acid
 CC sequences of EXCS are useful for diagnosing, treating and preventing
 CC infections and gastrointestinal (peptic ulcer, dysphagia, pancreatitis),
 CC neurological (e.g. epilepsy, ischemic cerebrovascular disease, stroke),
 CC reproductive (infertility, ovulatory defects, endometriosis), autoimmune
 CC /inflammatory (actinic keratosis, acquired immunodeficiency syndrome
 CC (AIDS), Addison's disease), and cell proliferative disorders including
 CC cancers (of the breast, adrenal gland, bone). They may also be used to
 CC treat fatal familial insomnia, nutritional and metabolic diseases of the
 CC nervous system, myopathies, mental disorders (anxiety, schizophrenia,
 CC mood), as well as infections caused by parasites (malaria, leishmania,
 CC trypanosoma), viral (adenovirus, coronavirus, flavivirus), bacterial
 CC (e.g. pneumococcus, staphylococcus, bacillus), and fungal (aspergillus,
 CC blastomycosis, dermatophytes) agents. The nucleic acids, polypeptides,
 CC antagonists, agonists, pharmaceutical compositions, and antibodies may
 CC also be used for treating or preventing disorders associated with
 CC increased or decreased expression or activity of EXCS. EXCS
 CC polynucleotides may also be used to detect and quantify gene expression
 CC in biopsied tissues in which expression of EXCS may be correlated with
 CC the disease, to determine presence or excess expression of EXCS, to
 CC monitor regulation of EXCS levels during therapeutic intervention, to
 CC detect the presence of associated disorders, as targets in microarray, to
 CC generate hybridization probes, and to detect differences in gene
 CC sequences among normal, carrier or affected individuals. Antibodies may
 CC also be used in diagnosing disorders, in monitoring patients being
 CC treated with EXCS agonists, antagonists or inhibitors. Sequences AAB48057
 CC -B48082 represent the EXCS of the invention
 XX
 SQ Sequence 105 AA;
 Query Match 100.0%; Score 589; DB 4; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.8e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWLRGLMCTPLGRGESEC 60
 DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWLRGLMCTPLGRGESEC 60
 QY 61 HPGSHKVPFPRKRRKHTCPCLPNILCSRFPDGRYRCSMDLNKINF 105
 DB 61 HPGSHKVPFPRKRRKHTCPCLPNILCSRFPDGRYRCSMDLNKINF 105
 RESULT 10
 AAM50773
 ID AAM50773 standard; protein; 105 AA.
 XX
 AC AAM50773;
 XX
 DT 23-APR-2002 (first entry)
 XX
 DE Endocrine gland-derived vascular endothelial growth factor.
 XX
 KW Endocrine gland-derived vascular endothelial growth factor; EG-VEGF;
 KW human; cell proliferation; cell migration; fenebstration;
 KW cell differentiation; angiogenesis; chemotaxis; endocrine; infertility;
 KW fertility; polycystic ovary syndrome; ovarian cyst; cancer; cytostatic;
 KW diagnosis; therapy.
 KW
 XX Homo sapiens.
 OS


```

XX Key Location/Qualifiers
FH Peptide 1..19
FT /label= signal_peptide
FT Protein 20..105
FT /label= Mature_protein
FT Modified-site 33
FT /note= "N-myristoylated"
FT Modified-site 35
FT /note= "N-myristoylated"
FT Modified-site 46
FT /note= "N-myristoylated"
XX
XX W0200200711-A2.
XX
XX 03-JAN-2002.
XX
XX 22-JUN-2001; 2001WO-US020116.
XX
XX 23-JUN-2000; 2000US-0213637P.
XX 07-SEP-2000; 2000US-0230978P.
XX 01-DEC-2000; 2000WO-US032678.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ferrara N, Watanabe C, Wood WI;
XX WPI; 2002-130882/17.
XX N-PSDB; ABA91567.
XX
XX New endocrine gland-vascular endothelial growth factor (EG-VEGF)
XX polypeptide, agonists and antagonists, useful for regulating fertility,
XX and for treating cancer of the reproductive organs, e.g. ovarian or
XX prostate cancer.
XX
XX Claim 12; Fig 2; 133pp; English.
XX
XX The present sequence is that of a novel, tissue-restricted, growth and
XX differentiation factor termed endocrine gland-derived vascular
XX endothelial growth factor (EG-VEGF). The sequence is predicted from the
XX open reading frame of a cDNA clone (see ABA91567) obtained from an
XX ovarian tissue library. EG-VEGF induces proliferation, migration and
XX fenestrations in capillary endothelial cells derived from endocrine
XX glands, but has no effect on a variety of other endothelial and non-
XX endothelial cell types tested. The EG-VEGF precursor has a predicted
XX mol.wt. of 11715 and a pI of 9.05. The mature protein (mol.wt. 8600) is
XX cysteine-rich and is predicted to consist of a series of short beta
XX strands with large connecting loops held together by disulfide bonds
XX resulting in a flat fold with finger-like projections that act as
XX interactive surfaces. 80% Homology and 63% identity is shown to venom
XX protein A (VPRA) of the black mamba snake, and 76% homology and 56%
XX identity to human protein Bv. EG-VEGF nucleic acids and polypeptides, as
XX well as agonists and antagonists, can be used in the treatment of
XX conditions associated with hormone-producing tissue, especially ovarian,
XX testicular, cervical, adrenal, placental or prostate tissue. The
XX condition may be polycystic ovary syndrome, cancer, especially ovarian
XX cancer, testicular cancer, prostate cancer or uterine cancer, or ovarian
XX cyst (all claimed). Fertility can be regulated using an EG-VEGF
XX antagonist to inhibit follicle maturation or ovulation. Methods are
XX claimed for identifying compounds that modulate EG-VEGF activity,
XX especially the ability to induce phosphorylation of a kinase involved in
XX cell proliferation or survival, to induce chemotaxis, angiogenesis, or
XX cell differentiation, or to induce endothelial cell proliferation
XX
XX Sequence 105 AA;
XX
XX Query Match 100.0%; Score 589; DB 5; Length 105;
XX Best Local Similarity 100.0%; Pred. No. 3.8e-54;
XX Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 MRAATRSIMLLVTVSDCAVITGACERDVOCAGTCCASIMLRGMRCTPLGREEEEC 60
XX Db 1 MRAATRSIMLLVTVSDCAVITGACERDVOCAGTCCASIMLRGMRCTPLGREEEEC 60

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Qy 61 HPGSHKVPFRRKRKHTCTCPMLCSRPDDGRYRCSMDLKNIF 105
Db 61 HPGSHKVPFRRKRKHTCTCPMLCSRPDDGRYRCSMDLKNIF 105
XX
XX RESULT 11
XX ID AA083674 standard; protein, 105 AA.
XX AA083674;
XX
XX 08-MAY-2002 (first entry)
XX
XX Human PRO protein, Seq ID No 166.
XX
XX Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
XX breast cancer; prostate tumour; rectal tumour; liver tumour;
XX pericyte cell proliferation; chondrocyte cell proliferation;
XX tumour necrosis factor-alpha.
XX
XX Homo sapiens.
XX
XX W0200208288-A2.
XX
XX 31-JAN-2002.
XX
XX 29-JUN-2001; 2001WO-US021066.
XX
XX 20-JUL-2000; 2000US-0219556P.
XX 25-JUL-2000; 2000US-0220585P.
XX 25-JUL-2000; 2000US-0220605P.
XX 25-JUL-2000; 2000US-0220607P.
XX 25-JUL-2000; 2000US-0220624P.
XX 25-JUL-2000; 2000US-0220638P.
XX 25-JUL-2000; 2000US-0220664P.
XX 25-JUL-2000; 2000US-0220666P.
XX 25-JUL-2000; 2000US-0220893P.
XX 28-JUL-2000; 2000WO-US020710.
XX 01-AUG-2000; 2000US-022425P.
XX 22-AUG-2000; 2000US-0227133P.
XX 23-AUG-2000; 2000WO-US023522.
XX 24-AUG-2000; 2000WO-US023328.
XX 10-NOV-2000; 2000WO-US030873.
XX 28-NOV-2000; 2000US-0253646P.
XX 01-DEC-2000; 2000WO-US032678.
XX 20-DEC-2000; 2000US-00747259.
XX 20-DEC-2000; 2000WO-US034956.
XX 28-FEB-2001; 2001WO-US006520.
XX 01-MAR-2001; 2001US-0006666.
XX 22-MAR-2001; 2001US-00816744.
XX 10-MAY-2001; 2001US-00854208.
XX 10-MAY-2001; 2001US-00854280.
XX 25-MAY-2001; 2001WO-US017092.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
XX PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX WPI; 2002-172001/22.
XX N-PSDB; ABA91567.
XX
XX One hundred and twenty two nucleic acids encoding PRO polypeptides,
XX useful for treating a PRO related disorder and for diagnosing tumors such
XX as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
XX or liver tumor.
XX
XX Claim 11; Fig 166; 359pp; English.
XX
XX The invention relates to one hundred and twenty two nucleic acids
XX encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
XX encode human secreted proteins. The PRO nucleic acids, polypeptides,

```


CC agonists and antagonists are useful for treating a PRO related disorder.
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression, in pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor-alpha from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AA053592-AA053713 represent human PRO
 CC protein sequences of the invention

XX SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3,8e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWRLGRLMCTPLGRGEGEC 60
 DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWRLGRLMCTPLGRGEGEC 60

QY 61 HPGSHKVPFFRKRRKHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105
 DB 61 HPGSHKVPFFRKRRKHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105

RESULT 12
 ABB84902
 ID ABB84902 standard; protein, 105 AA.
 XX AC ABB84902;
 XX DT 16-MAY-2002 (first entry)
 XX DE Human PRO1186 protein sequence SEQ ID NO:172.
 XX KW Human; angiogenesis; cardiact; cytostatic; antiangiogenic; hypotensive;
 XX KW vlnetary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
 XX KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
 XX KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
 XX KW age-related macular degeneration; arterial restenosis; angina;
 XX KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
 XX KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
 XX KW wound healing; chromosome mapping; gene mapping.
 XX OS Homo sapiens.
 XX PN WO200200690-A2.
 XX PD 03-JAN-2002.
 XX PF 20-JUN-2001; 2001WO-US019692.
 XX XX 23-JUN-2000; 2000US-0213637P.
 XX XX 20-JUL-2000; 2000US-0219556P.
 XX XX 25-JUL-2000; 2000US-0220624P.
 XX XX 25-JUL-2000; 2000US-0220664P.
 XX XX 28-JUL-2000; 2000WO-US020710.
 XX XX 02-AUG-2000; 2000US-0222695P.
 XX XX 17-AUG-2000; 2000US-00643657.
 XX XX 23-AUG-2000; 2000WO-US023522.
 XX XX 24-AUG-2000; 2000WO-US023328.
 XX XX 07-SEP-2000; 2000US-0220978P.
 XX XX 18-SEP-2000; 2000US-00664610.
 XX XX 18-SEP-2000; 2000US-00665350.
 XX XX 24-OCT-2000; 2000US-0242922P.
 XX XX 08-NOV-2000; 2000US-00709238.
 XX XX 10-NOV-2000; 2000WO-US030952.
 XX XX 01-DEC-2000; 2000WO-US030873.
 XX XX 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 22-JAN-2001; 2001US-00767609.
 PR 28-FEB-2001; 2001US-0076498.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 09-MAR-2001; 2001US-00802706.
 PR 14-MAR-2001; 2001US-00808689.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001US-00866028.
 PR 25-MAY-2001; 2001US-00866034.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 30-MAY-2001; 2001US-00870574.
 PR 30-MAY-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 XX XX (GETH) GENENTECH INC.
 XX PA Baker KP, Ferrara N, Gerber H, Gertlisen ME, Goddard A;
 XX PI Godowski PJ, Gurney AL, Hillan KJ, Masters SA, Pan J, Paoni NF;
 XX PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W,
 XX XX WPI; 2002-090516/12.
 XX DR N-PSDB; ABL8157.
 XX XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 XX PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 XX PT infarction), endothelial or angiogenic disorders in a mammal.
 XX PS Claim 11; Fig 172; 565P; English.
 XX XX ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
 CC ABB8503. The PRO proteins and polynucleotides have cardiact, cytostatic,
 CC antiangiogenic, hypotensive, vlnetary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g.
 CC cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
 CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The PRO polynucleotides have applications in molecular biology,
 CC including use as hybridisation probes, and in chromosome and gene
 CC mapping. ABL88259 to ABL88267 represent primers and probes used in the
 CC exemplification of the present invention

XX SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3,8e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWRLGRLMCTPLGRGEGEC 60
 DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCALISLWRLGRLMCTPLGRGEGEC 60

QY 61 HPGSHKVPFFRKRRKHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105
 DB 61 HPGSHKVPFFRKRRKHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105

RESULT 13
 AA015527
 ID AA015527 standard; protein, 105 AA.
 XX AC AA015527;
 XX DT 24-OCT-2002 (first entry)
 XX DE Human physiologically-active ZAQ ligand-related protein 3.

```

XX Human; ZAQ ligand; physiologically-active ZAQ ligand; digestive disease;
KM colitis; diarrhoea.
XX Homo sapiens.
XX WO200257443-A1.
XX
XX 25-JUL-2002.
XX
XX 21-JAN-2002; 2002WO-JP000378.
XX
XX 22-JAN-2001; 2001JP-00013027.
XX
XX 17-MAY-2001; 2001JP-00147759.
XX
XX (TAKEDA ) TAKEDA CHEM IND LTD.
XX
XX Yamada T, Suenaga M, Nishimura O;
XX
XX WPI; 2002-566801/60.
XX
XX Industrial production of physiologically-active ZAQ ligand by expressing
XX in transformant prokaryote and refolding in redox buffer, for use in
XX preventing or treating digestive diseases e.g. colitis and diarrhoea.
XX
XX Example 3; Page 76-77; 93pp; Japanese.
XX
XX The invention comprises a method for producing an active peptide that has
XX the same activity as a ZAQ ligand isolated from eukaryotic cells. The
XX method of the invention is useful for the production of a physiologically
XX -active ZAQ ligand for use in preventing or treating digestive diseases
XX (e.g. colitis and diarrhoea). The present amino acid sequence represents a
XX human physiologically active ZAQ ligand-related protein
XX
XX Sequence 105 AA;
SQ
Query Match 100.0%; Score 589; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.8e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLMLRGLRMCTPLGRGEGEC 60
DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLMLRGLRMCTPLGRGEGEC 60
QY 61 HPGSHKVPFPRKRKHTCPCLPMLCSRPPDGRYRCMDLKNINF 105
DB 61 HPGSHKVPFPRKRKHTCPCLPMLCSRPPDGRYRCMDLKNINF 105
DE RESULT 14
ABB06308
ID ABB06308 standard; protein; 105 AA.
XX
XX ABB06308;
XX
XX 27-MAY-2002 (first entry)
XX
XX Human G protein-coupled receptor ZAQ ligand protein SEQ ID NO:23.
XX
XX G protein-coupled receptor; ZAQ ligand; physiologically active peptide;
XX ZAQ; antidiarrhetic; laxative; drug development; digestive disease;
XX colitis; diarrhoea; constipation; poor-absorption syndrome; gene therapy.
XX
XX Homo sapiens.
XX
XX WO200206483-A1.
XX
XX 24-JAN-2002.
XX
XX 17-JUL-2001; 2001WO-JP006162.
XX
XX 18-JUL-2000; 2000JP-00217442.
XX
XX 02-FEB-2001; 2001JP-00026779.

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XX (TAKEDA ) TAKEDA CHEM IND LTD.
XX
XX Ohtaki T, Masuda Y, Takatsu Y, Watanabe T, Terao Y, Shintani Y,
XX Hinuma S;
XX
XX WPI; 2002-188546/24.
XX
XX N-PSDB; ABL49637.
XX
XX Physiologically-active peptides from cows milk, useful for developing
XX drugs to treat ZAQ-mediated diseases, particularly digestive diseases
XX like colitis, diarrhoea, constipation and poor-absorption syndrome, by
XX gene therapy.
XX
XX Claim 5; Page 61; 191pp; Japanese.
XX
XX The present invention describes a peptide containing an amino acid
XX sequence (I) identical to or substantially similar to that of the
XX sequence in ABB06305 or ABB06306, or its salt. (I) has antidiarrhetic and
XX laxative activities. The peptides and encoding DNAs from the present
XX invention are useful for developing drugs to treat digestive diseases
XX like colitis, diarrhoea, constipation and poor-absorption syndrome,
XX including gene therapy. The physiologically-active cows milk-originated
XX peptides are applicable as a specific ligand of brain-originated orphan G
XX protein-coupled receptor protein ZAQ. ABL49615 to ABB40659 and ABB06303
XX to ABB06315 represent sequences used in the exemplification of the
XX present invention
XX
XX Sequence 105 AA;
SQ
Query Match 100.0%; Score 589; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.8e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLMLRGLRMCTPLGRGEGEC 60
DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLMLRGLRMCTPLGRGEGEC 60
QY 61 HPGSHKVPFPRKRKHTCPCLPMLCSRPPDGRYRCMDLKNINF 105
DB 61 HPGSHKVPFPRKRKHTCPCLPMLCSRPPDGRYRCMDLKNINF 105
DE RESULT 15
AAE24382
ID AAE24382 standard; protein; 105 AA.
XX
XX AAE24382;
XX
XX 04-OCT-2002 (first entry)
XX
XX Human prokineticin 1 precursor protein.
XX
XX Human; prokineticin 1; gastrointestinal motility; intestinal cancer;
XX irritable bowel syndrome; gastrointestinal reflux disease; diarrhoea;
XX diabetic gastroparesis; chronic constipation; malabsorptive disorder;
XX inflammatory bowel disorder; analgesic; infectious disease.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..19
XX Protein /label=Signal_Peptide
XX /note="Mature human prokineticin 1"
XX
XX WO200236625-A2.
XX
XX 10-MAY-2002.
XX
XX 01-NOV-2001; 2001WO-US047969.
XX
XX 03-NOV-2000; 2000US-0245882P.

```

XX (REGC) UNIV CALIFORNIA.
 PA
 XX
 PI Zhou Q, Ehlerl FJ;
 XX
 XX WPI: 2002-479752/51.
 DR N-PSDB; AAD39321.
 XX

PT New isolated human prokineticin 1 and 2 polypeptides that stimulate
 PT gastrointestinal smooth muscle contraction, useful for improving impaired
 PT gastrointestinal motility in irritable bowel syndrome, chronic
 PT constipation.
 XX

PS Example 1; Fig 1; 86pp; English.
 XX

CC The invention relates to human prokineticin 1 and 2 polypeptides that
 CC stimulate gastrointestinal smooth muscle contraction and nucleic acid
 CC molecules encoding such polypeptides. Polypeptides of the invention are
 CC useful for treating disorders involving impaired gastrointestinal
 CC motility. They are useful for stimulating gastrointestinal motility in
 CC disorders such as irritable bowel syndrome, diabetic gastroparesis, post-
 CC operational ileus, chronic constipation and gastrointestinal reflux
 CC disease. The prokineticin antagonists are useful for inhibiting
 CC gastrointestinal motility in conditions of diarrhoea, malabsorptive
 CC disorders, inflammatory bowel disorders, infectious diseases and
 CC intestinal cancers. The antagonists also act as analgesics. The present
 CC sequence is human prokineticin 1 precursor protein
 XX

SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.8e-54;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLTLVTSDCAVITGACERDVOCGAGTCCATSLMTLRLMCTPLRGREGEC 60
 Db 1 MRGATRVSIMLTLVTSDCAVITGACERDVOCGAGTCCATSLMTLRLMCTPLRGREGEC 60
 QY 61 HPGSHKVPFFRKRGKHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105
 Db 61 HPGSHKVPFFRKRGKHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105

Search completed: March 30, 2006, 17:30:56
 Job time : 192 secs

[Faint, illegible handwritten notes]

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 30, 2006, 17:31:17 ; Search time 39 Seconds
(without alignments)
259.045 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589

Sequence: 1 MRGATRVSMILVTSDC.....CSRPPDGRYRCMDLKNINF 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	100.5	17.1	350 2 JC7188	REIC protein - hum
2	88.5	15.0	640 2 T08179	LRG5 protein - chl
3	83	14.1	1101 2 T16840	hypothetical prote
4	81	13.6	1964 2 T09059	notch4 - mouse
5	79	13.4	112 1 XLHU	collipase precursor
6	77.5	13.2	473 2 A56175	adhesive plaque pr
7	77	13.1	251 2 A55035	cyteine-rich prot
8	75.5	12.8	1574 2 T13954	MEGF6 protein - ra
9	75	12.7	734 2 JC4861	fertilin beta cha
10	75	12.7	2318 2 S45306	notch 3 protein -
11	75	12.7	2531 2 T11070	notch homolog - se
12	74	12.6	112 2 I51909	collipase precursor
13	74	12.6	1620 2 T27283	hypothetical prote
14	73	12.4	461 1 A35356	tumor necrosis fac
15	73	12.4	3075 2 S14458	laminin alpha-1 ch
16	72.5	12.3	643 2 T25472	hypothetical prote
17	72.5	12.3	2871 2 A55567	fibritin I - bovi
18	72.5	12.3	3002 2 A47221	fibritin I - bovi
19	72	12.2	1639 1 NMFFB2	laminin gamma-1 ch
20	71.5	12.1	591 2 I48141	acroganin - guine
21	71.5	12.1	601 2 B36346	fibulin 1 precursor
22	71.5	12.1	683 2 C36346	fibulin 1 precursor
23	71.5	12.1	1178 1 A39804	thrombospondin pre
24	71.5	12.1	1854 2 T33576	hypothetical prote
25	71	12.1	286 2 S34665	collagen, cuticula
26	71	12.1	593 1 GYHU	granulin precursor
27	70.5	12.0	1847 2 T13108	probable vitelloge
28	70.5	12.0	2871 2 A55624	fibritin-1 precu
29	69.5	11.8	802 2 T24293	hypothetical prote

30	69.5	11.8	949 2 T24294	hypothetical prote
31	69.5	11.8	2352 2 T30201	Notch homolog prot
32	69.5	11.8	4545 1 S25111	alpha-2-macroglobu
33	69	11.7	2918 2 A54105	fibritin-2 precu
34	69	11.7	3133 2 S52093	hemocytin - silkw
35	69	11.7	3712 2 S18253	laminin alpha-1 ch
36	68.5	11.6	728 2 I50719	C-Delta-1 - chicke
37	68.5	11.6	850 2 T14450	serine/threonine k
38	68.5	11.6	884 2 T18649	hypothetical prote
39	68.5	11.6	1172 2 A42587	thrombospondin 2 p
40	68.5	11.6	1376 2 G00043	osteonidogen - hum
41	68	11.5	1132 2 A46717	collipase precursor
42	68	11.5	345 2 T25138	hypothetical prote
43	68	11.5	358 2 T25137	hypothetical prote
44	68	11.5	427 1 GQHDN	nerve growth facto
45	68	11.5	547 2 A33901	mannosyl-oligosacc

ALIGNMENTS

RESULT 1

JC7188

C:Species: Homo sapiens (man)

C>Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 11-May-2000

C/Accession: JC7188

R/Tsugl, T.; Miyazaki, M.; Sakaguchi, M.; Inoue, Y.; Namba, M.

Biochem. Biophys. Res. Commun. 268, 20-24, 2000

A>Title: A REIC gene shows down-regulation in human immortalized cells and human tumor-d

A/Reference number: JC7188; MUID:20119095; PMID:10652205

A/Accession: JC7188

A/Molecule type: mRNA

A/Residues: 1-350 <TSU>

A/Cross-references: UNIPARC:UPI0000179471; DDBJ:AB034203

A/Experimental source: heart

C/Comment: This protein is a secreted glycoprotein for head induction in amphibian embryo.

C/Genetics:

A:Gene: reic

C:Superfamily: human REIC protein

C/Keywords: cardiac muscle; coiled coil; glycoprotein; heart; tumor

Query Match 17.1%; Score 100.5; DB 2; Length 350;

Beet Local Similarity 37.7%; Pred. No. 0.0086;

Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;

QY 26 CERVOGAGTCCASISLRLGL--RMCTPLGRGESECH-PGSHKVPFRKXK-----HT 77

DB 208 CDNORDCQGLCCAFQ--RGLFPVCTPLPVBGSLCHDPASRLDITWELBPDGALDR 264

QY 78 CPCLPNLLC 86

DB 265 CPCCASGLLC 273

RESULT 2

T08179

LRG5 protein - Chlamydomonas reinhardtii

C/Species: Chlamydomonas reinhardtii

C/Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C/Accession: T08179

R/Gloekner, G.; Beck, C.F.

submitted to the EMBL Data Library, October 1996

A/Description: Molecular characterization of a gene (LRG5) involved in blue light signal

A/Reference number: Z16399

A/Accession: T08179

A/Status: preliminary; translated from GB/EMBL/DDBJ

A/Molecule type: mRNA

A/Residues: 1-640 <GLO>

A/Cross-references: UNIPROT:Q96397; UNIPARC:UPI0000095362; EMBL:U73817; NID:g1644369; PI

```

Query Match          15.0%; Score 88.5; DB 2; Length 640;
Best Local Similarity 31.6%; Pred. No. 0.23;
Matches 24; Conservative 5; Mismatches 24; Indels 23; Gaps 4;

Qy 32 CGAGTCCATSLMLRGLMCTPLGREGGCHGSHKVPFFRKHKHTPCPLPNLLCSRF-- 89
Db 488 CTGAGRC---MM---TCLPMWSSGGTWPRPLMTF-----SRTACILPTPCSSMLR 533
Qy 90 -----PDGRYRCM 98
Db 534 RMRGMAFGMRCSL 549

RESULT 3
T16840
hypothetical protein T10E10.4 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C:Accession: T16840
R:Geisel, C.
submitted to the EMBL Data Library, October 1995
A:Description: The sequence of C. elegans coemid T10E10.
A:Reference number: Z18588
A:Accession: T16840
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1101 <GEI>
A:Cross-references: UNIPROT:Q23378; UNIPARC:UPI000017888F; EMBL:U39644; NID:g1049339; PI
A:Experimental source: strain Bristol N2
C:Genetics:
A:Gene: CESP:T10E10.4
A:Introns: 93/2; 152/2; 191/3; 209/2; 283/3; 303/1; 399/3; 421/1; 440/1; 465/1; 547/3; 7

Query Match          14.1%; Score 83; DB 2; Length 1101;
Best Local Similarity 24.4%; Pred. No. 1.3;
Matches 32; Conservative 9; Mismatches 40; Indels 50; Gaps 6;

Qy 13 LMTVSDCAVITGACERVOGAGTCCATSLMLRG----- 46
Db 749 LMSVORCAMGIG-CPPNOCENGVCCPMPWSSSIASSVCGMANSCPIGYICGRGCL 807
Qy 47 --LRMCTPLGR-----EGEBCHPG-----SHKVPFFRKHKHTPCPLPNLLCS 87
Db 808 EPLPLCNGSRASRCVRGMAACPFGYCTPLGCGCLLSMEVCTRSNANVCCSPNNVC- 866
Qy 88 RFPDGRYRCM 98
Db 867 --PSGA-SCTM 874

RESULT 4
T09059
notch4 - mouse
C:Species: Mus musculus (house mouse)
C>Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C:Accession: T09059
R:Rowen, L.; Mahatras, G.; Qin, S.; Ahearn, M.E.; Dankers, C.; Lasky, S.; Loretz, C.; So
submitted to the EMBL Data Library, October 1997
A:Description: Sequence of the mouse major histocompatibility locus class III region.
A:Reference number: Z16543
A:Accession: T09059
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1964 <ROM>
A:Cross-references: UNIPROT:P31695; UNIPARC:UPI000016CTF1; EMBL:AF030001; NID:g2564945;
C:Genetics:
A:Gene: notch4
A:Map position: 17
A:Introns: 22/1; 49/2; 148/1; 264/1; 305/1; 384/1; 436/1; 501/1; 539/1; 577/1; 618/1; 67
1679/3; 1729/1; 1761/3
C:Superfamily: notch protein; ankyrin repeat homology; EGF homology
C:Keywords: receptor; signal transduction
F:514-545/Domain: EGF homology <EGF>

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Query Match          13.8%; Score 81; DB 2; Length 1964;
Best Local Similarity 30.4%; Pred. No. 3.4;
Matches 24; Conservative 7; Mismatches 22; Indels 26; Gaps 5;

Qy 26 CERDVG-----CGAGTCCATSLMLRGLMCTPLGREGGCHGSHKVPFFRKHKH 76
Db 188 CERDINECFBPPCCQGISCHNTL---GSYCLCFVGGRPGC-----KLRKG 233
Qy 77 TCP---CLPNLLCSRPDG 92
Db 234 ACPGSSCLNGTCLQVPEG 252

RESULT 5
XLRU
colipase precursor [validated] - human
N:Alternate names: procolipase
C:Species: Homo sapiens (man)
C>Date: 04-Dec-1986 #sequence_revision 19-May-1995 #text_change 09-Jul-2004
C:Accession: A42568; A33949; A03163
R:Sim, H.F.; Lowe, M.B.
Biochemistry 31, 7120-7125, 1992
A>Title: The human colipase gene: isolation, chromosomal location, and tissue-specific ex
A:Reference number: A42568; MUID:92353041; PMID:1643046
A:Accession: A42568
A:Molecule type: DNA
A:Residues: 1-112 <SIM>
A:Cross-references: UNIPROT:P04118; UNIPARC:UPI0000127E78; GB:M95529; NID:g180842; PID:g
A>Note: sequence extracted from NCBI backbone (NCBIN:110576, NCBIN:110578, NCBIN:110580)
R:Lowe, M.B.; Rosenblum, J.L.; McEwen, P.; Strauss, A.W.
Biochemistry 29, 823-828, 1990
A>Title: Cloning and characterization of the human colipase cDNA.
A:Reference number: A33949; MUID:90248429; PMID:2337598
A:Accession: A33949
A:Molecule type: mRNA
A:Residues: 1-112 <LOM>
A:Cross-references: UNIPARC:UPI0000127E78; GB:J02883; NID:g180885; PID:AAA52054.1; PID:g
A>Note: evidence of partial N-glycosylation, possibly at Asn-43
R:Sternby, B.; Engstrom, A.; Hellman, U.; Vihert, A.M.; Sternby, N.H.; Borgstrom, B.
Biochim. Biophys. Acta 784, 75-80, 1984
A>Title: The primary sequence of human pancreatic colipase.
A:Reference number: A90652; MUID:84104937; PMID:6691986
A:Accession: A03163
A:Molecule type: protein
A:Residues: 23-108 <STE>
A:Cross-references: UNIPARC:UPI000017411
C:Comment: Colipase, a cofactor of triacylglycerol lipase (EC 3.1.1.3), forms a 1:1 stoic
se the enzyme is washed off by bile salts, which are known to have an inhibitory effect c
C:Genetics:
A:Gene: GDB:CLPS
A:Cross-references: GDB:127277; OMIM:120105
A:Map position: 6pter-6p21.1
A:Introns: 28/3; 69/3
C:Superfamily: colipase
C:Keywords: lipid digestion; lipid hydrolysis; pancreas
F:1-17/Domain: signal sequence #status predicted <SIG>
F:18-22/Domain: amino-terminal propeptide #status predicted <APP>
F:23-108/Product: colipase #status experimental <MAT>
F:109-112/Domain: carboxyl-terminal propeptide #status predicted <CPP>
F:34-104,40-56,44-80,45-78,66-86/Disulfide bonds: #status predicted
F:69,72,75,76/Binding site: micellar substrate (Lys, Tyr, Tyr, Tyr) #status predicted

Query Match          13.4%; Score 79; DB 1; Length 112;
Best Local Similarity 28.4%; Pred. No. 0.48;
Matches 31; Conservative 9; Mismatches 45; Indels 24; Gaps 6;

Qy 9 IMTLTVSDCAVITG-----ACERVOGAGTCCATSLMLRGLMCTPLGREG 56
Db 5 LITLLVLSVAVAAPGRGIIINLENGELQMSAQ-CNSNCCQHSAL-GLARCTSWAS 62
Qy 57 GEBCHPSHKVPFFRKHKHTPCPLPNLLCSRPDGGRYRCMDLKNIN 105

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Db 63 NSEC---SVKTLV---GIYKPCPERGLTC---EGDKTIVGSIITNPF 101

RESULT 6

A56175

A:Title: adhesive plaque protein Mgfp2 precursor - Mediterranean mussel

C:Species: Mytilus galloprovincialis (Mediterranean mussel)

C:Date: 27-Apr-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004

C:Accession: A56175

R:Inoue, K.; Takeuchi, Y.; Miki, D.; Odo, S.

J. Biol. Chem. 270, 6698-6701, 1995

A:Title: Mussel adhesive plaque protein gene is a novel member of epidermal growth factor

A:Reference number: A56175; MUID:95204464; PMID:7896812

A:Accession: A56175

A:Molecule type: mRNA

A:Residues: 1-473 <IND>

A:Cross-references: UNIPROT:Q25464; UNIPARC:UPI000012AB7B; GB:ID43794; NID:G602767; PIDN:

C:Keywords: duplication

F:1-17/Domain: signal sequence #status predicted <SIG>

F:387-419/Domain: EGF homology <EGF>

F:429-460/Domain: EGF homology <EGF>

F:23,36,43,56,75,382,424,455,468,473/Modified site: 3',4'-dihydroxyphenylalanine (Tyr) #

Query Match 13.2%; Score 77.5; DB 2; Length 473;

Best Local Similarity 31.2%; Pred. No. 2.3;

Matches 24; Conservative 11; Mismatches 23; Indels 19; Gaps 7;

Qy 26 CERDVCGAGTCGCAISLWRLGRLMCTPLRGREGECCH-PGSHKVPFRRKHHTC---PCL 81

Db 117 CERKV-CSPNRC-----KNGKCSPLGKGYKCTGCGTGP---RCEVHACKRPCK 165

Qy 82 PNILCSRPDGR--YRC 96

Db 166 NKGRC--FPDGTGYKC 180

RESULT 7

A55035

A:Title: cysteine-rich protein CRP1 - earthworm (Enchytraeus buchholzi)

C:Species: Enchytraeus buchholzi

C:Date: 14-Nov-1994 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004

C:Accession: A55035; S45034

R:William, J.; Schmitt-Wrede, H.P.; Greven, H.; Wunderlich, F.

J. Biol. Chem. 269, 24688-24691, 1994

A:Title: cDNA cloning of a cadmium-inducible mRNA encoding a novel cysteine-rich, non-me

A:Reference number: A55035; MUID:95014230; PMID:7929141

A:Accession: A55035

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-251 <WLI>

A:Cross-references: UNIPROT:Q24774; UNIPARC:UPI000007D243; EMBL:X79344; NID:G488802; PID

C:Superfamily: ultra-high-sulfur keratin

Query Match 13.1%; Score 77; DB 2; Length 251;

Best Local Similarity 30.9%; Pred. No. 1.5;

Matches 25; Conservative 7; Mismatches 45; Indels 4; Gaps 3;

Qy 17 SDCAVITGACGAGTCGCAISLWRLGRLMCTPLRGREGECCHPGSHKVPFRRKHH 76

Db 77 SQCKCKECKCKG--CKEG-CCAPKCGVAGSCSGCKCKECPGCTKRCGCTKCGVE 133

Qy 77 TCPCLPNILCSRPDGRYRC 97

Db 134 DCPGSPCKCKE-GRCKVNC 153

RESULT 8

T13954

A:Title: MEGF protein - rat

C:Species: Rattus norvegicus (Norway rat)

C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004

C:Accession: T13954

R:Nakayama, M.; Nakajima, D.; Nagase, T.; Nomura, N.; Seki, N.; Ohara, O.

Genomice 51, 27-34, 1998

A:Title: Identification of high-molecular-weight proteins with multiple EGF-like motifs

A:Reference number: Z14126; MUID:98360089; PMID:9693030

A:Accession: T13954

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-1574 <NAK>

A:Cross-references: UNIPROT:O88281; UNIPARC:UPI0000043BER; EMBL:AB011532; NID:G3449293; E

A:Experimental source: strain Sprague-Dawley; brain

A:Genes: MEGF6

Query Match 12.8%; Score 75.5; DB 2; Length 1574;

Best Local Similarity 28.6%; Pred. No. 10;

Matches 24; Conservative 6; Mismatches 33; Indels 21; Gaps 4;

Qy 19 CAVITGAC-----ERDVCGAGTCGCAISLWRLGRLMCTPLRGREGECCHPGSHKVPFRRK 73

Db 755 CHRYTSCLPCKGTGECAD--CEGRKGLGCGEICPACCEGASCPN----- 801

Qy 74 KHHTCPLPNILCSRPDGRYRC 97

Db 802 ETGTCCLPGVGSRCOD---TCS 822

RESULT 9

JC4861

A:Title: ferritin beta chain - human

C:Species: Homo sapiens (man)

C:Date: 15-Aug-1996 #sequence_revision 18-Oct-1996 #text_change 09-Jul-2004

C:Accession: JC4861

R:Gupta, S.K.; Alves, K.; O'Neill, Palladino, L.; Mark, G.E.; Hollis, G.F.

Biochem. Biophys. Res. Commun. 224, 318-326, 1996

A:Title: Molecular cloning of the human ferritin beta subunit.

A:Reference number: JC4861; MUID:96295488; PMID:8702389

A:Accession: JC4861

A:Molecule type: mRNA

A:Residues: 1-734 <GUP>

A:Cross-references: UNIPROT:Q09965; UNIPARC:UPI0000161BD9; GB:U38805; NID:G415118; PIDN

C:Comment: This protein is an integral sperm membrane glycoprotein, and plays a role in

C:Superfamily: mouse meltrin alpha; disintegrin homology

C:Keywords: glycoprotein; integrin binding; transmembrane protein

F:332-734/Product: ferritin beta chain #status predicted <NAT>

F:332-467/Domain: disintegrin homology <DIS>

F:448-450/Region: integrin binding #status predicted

F:686-708/Domain: transmembrane #status predicted <TM>

F:121,219,352,458,565/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 12.7%; Score 75; DB 2; Length 734;

Best Local Similarity 28.8%; Pred. No. 6;

Matches 21; Conservative 7; Mismatches 29; Indels 16; Gaps 3;

Qy 15 TVSDCAVITGAC-----ERDVCGAGTCGCAISLWRLGRLMCTPLRGREGECCHPGSHK 66

Db 401 TSDQCALIGETCCDIATCRFKAGSNCAEGPCENCLFMSKRRCRP---SFEC-----D 452

Qy 67 VPFRRKHHKTC 79

Db 453 LPEYCNSSASCP 465

RESULT 10

S45306

A:Title: notch 3 protein - mouse

C:Species: Mus musculus (house mouse)

C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004

C:Accession: S45306

R:Lardelli, M.; Dahlstrand, J.; Lendahl, U.

Mech. Dev. 46, 123-136, 1994

A:Title: The novel Notch homologue mouse Notch 3 lacks specific epidermal growth factor-1

A:Reference number: S45306; MUID:95001556; PMID:7918097

A:Accession: S45306

A:Status: preliminary

A:Molecule type: mRNA
 A:Residues: 1-2318 <LAR>
 A:Cross-references: UNIPROT:Q61982; UNIPARC:UPI000002930C; EMBL:X74760; NID:g483580; PID
 C:Superfamily: notch protein; ankyrin repeat homology; EGF homology
 F:163-195/Domain: EGF homology <EGF1>
 F:474-505/Domain: EGF homology <EGF2>
 F:854-885/Domain: EGF homology <EGF3>
 F:1839-1871/Domain: ankyrin repeat homology <AN1>
 F:1872-1904/Domain: ankyrin repeat homology <AN2>
 F:1906-1938/Domain: ankyrin repeat homology <AN3>
 F:1939-1971/Domain: ankyrin repeat homology <AN4>
 F:1972-2004/Domain: ankyrin repeat homology <AN5>

Query Match 12.7%; Score 75; DB 2; Length 2318;
 Best Local Similarity 28.1%; Pred. No. 16;
 Matches 25; Conservative 5; Mismatches 25; Indels 34; Gaps 5;

Oy 19 CAVITGACRDVOCAGTCCAI--SLMLRGLRMCTPLRGEGEC----- 60
 Db 1287 CERARBC-RELQCPVPIPCQQT--ARGPRCACPRGLSGRCVRSRSPGATNASCASA 1343
 Oy 61 ---HPGS---HKVPFRKRKHTCPCLP 82
 Db 1344 PCLHGSGCLPQSVPFRR-----CVCAP 1366

RESULT 11
 T31070
 notch homolog - sea urchin (Lytechinus variegatus)
 C:Species: Lytechinus variegatus (variegated urchin)
 C:Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 31-Jan-2000
 C:Accession: T31070
 R:Sherwood, D.R.; McClay, D.R.
 Development 124, 3363-3374, 1997
 A:Title: Identification and localization of a sea urchin Notch homologue: insights into
 A:Reference number: 220966; MUID:97454256; PMID:9310331
 A:Accession: T31070
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-2531 <SHE>
 A:Cross-references: UNIPARC:UPI000007531C; EMBL:AF000634; NID:g2570350; PID:g2570351; PI
 C:Superfamily: notch protein; ankyrin repeat homology; EGF homology

Query Match 12.7%; Score 75; DB 2; Length 2531;
 Best Local Similarity 29.9%; Pred. No. 17;
 Matches 23; Conservative 8; Mismatches 32; Indels 14; Gaps 5;

Oy 22 ITGACERDVOCAGTCCAI--SLMLRGLRMCTPLRGEGECPSHKVPFRKRKHTCP 79
 Db 120 VDNVCKLEPCQNGCTRLTSLMDYEC-PCFP-ANTGENTDNDHCY-----SNP 168
 Oy 80 CLPNLCSRPDPGRYRC 96
 Db 169 CLNGAVCTSSSDG-YSC 184

RESULT 12
 I51909
 colipase precursor - rat
 N:Alternate names: procolipase
 C:Species: Rattus norvegicus (Norway rat)
 C:Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
 C:Accession: I51909; A34623
 R:Payne, R.M.; Sims, H.F.; Jennes, M.L.; Lowe, M.E.
 Am. J. Physiol. 266, G914-G921, 1994
 A:Title: Rat pancreatic lipase and two related proteins: enzymatic properties and mRNA
 A:Reference number: I51909; MUID:94262798; PMID:8203536
 A:Accession: I51909
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-112 <PAY>
 A:Cross-references: UNIPROT:P17084; UNIPARC:UPI0000127E7C; GB:M58370; NID:g203504; PIDN:
 R;Wicker, C.; Pulgover, A.

Biochem. Biophys. Res. Commun. 167, 130-136, 1990
 A:Title: Rat pancreatic colipase mRNA: nucleotide sequence of a cDNA clone and nutrition
 A:Reference number: A34623; MUID:90179738; PMID:2129524
 A:Accession: A34623
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-17, '19-112 <MIC>
 A:Cross-references: UNIPARC:UPI00001708B5; GB:M33333; NID:g203502; PIDN:AAA40943.1; PID:
 C:Superfamily: colipase
 C:Keywords: lipid digestion; lipid hydrolysis; pancreas
 F:1-17/Domain: signal sequence #status predicted <Sig>
 F:18-112/Product: colipase #status predicted <Mat>

Query Match 12.6%; Score 74; DB 2; Length 112;
 Best Local Similarity 25.8%; Pred. No. 15;
 Matches 24; Conservative 10; Mismatches 39; Indels 20; Gaps 4;

Oy 6 RVSIMLLVTVSPCAVITG-----ACERDVOCAGTCCAI--SLMLRGLRMCTPL 53
 Db 2 KVLVLLVTLVAAYAAPRGFLINLDEGEICVNSMOC-KSRCCQHDRTL-GIARCTHK 59
 Oy 54 GREGECHPSHKVPFRKRKHTCPCLPNLIC 86
 Db 60 AMENSECSPKTIYGIYR-----CPCERGLTC 86

RESULT 13
 T27283
 hypothetical protein Y64G10A.f - Caenorhabditis elegans
 C:Species: Caenorhabditis elegans
 C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
 C:Accession: T27283
 R:Almouzni, R.
 Submitted to the EMBL Data Library, September 1999
 A:Reference number: 220336
 A:Accession: T27283
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-1620 <HIL>
 A:Cross-references: UNIPARC:UPI000017BC84; EMBL:AL110498; NID:e1542303; PIDN:CAB54471.1;
 A:Experimental source: clone Y64G10A
 C:Genetics:

Query Match 12.6%; Score 74; DB 2; Length 1620;
 Best Local Similarity 27.5%; Pred. No. 15;
 Matches 22; Conservative 4; Mismatches 16; Indels 38; Gaps 4;

Oy 16 VSDCAVITGACERDVOCAG-----TCCAI--SLMLRGLRMCTPLRGEGECPSHKVP 68
 Db 1114 VARCHVHTGEC---RCPAGWTPDQCTSC-----PLGRHGGC----- 1148
 Oy 69 FFRKRKHTCPCLPNLICSR 88
 Db 1149 -----RHSCGCSNGASCDR 1162

RESULT 14
 A35356
 tumor necrosis factor receptor 2 precursor [validated] - human
 N:Alternate names: 75K tumor necrosis factor receptor; TNF receptor type 2
 C:Species: Homo sapiens (man)
 C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
 C:Accession: A35356; A36475; A48416; A36007; A23666; B35010; I38094
 R:Smith, C.A.; Davis, T.; Anderson, D.; Solam, L.; Beckmann, M.P.; Jerzy, R.; Dower, S.K
 Science 248, 1019-1023, 1990
 A:Title: A receptor for tumor necrosis factor defines an unusual family of cellular and
 A:Reference number: A35356; MUID:90260639; PMID:2160731
 A:Accession: A35356
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-461 <SMI>

A:Cross-references: UNIPROT:P20333; UNIPARC:UPI000002FAE1; GB:M32315; NID:9189185; PIDN:
 R:Kohn, T.; Brewer, M.T.; Baker, S.L.; Schwartz, P.E.; King, M.W.; Hale, K.K.; Squires,
 Proc. Natl. Acad. Sci. U.S.A. 87, 8331-8335, 1990
 A:Title: A second tumor necrosis factor receptor gene product can shed a naturally occur
 A:Reference number: A36475; MUID:91045991; PMID:2172983
 A:Accession: A36475
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-195, 'R', 197-461 <KOH>
 A:Cross-references: UNIPARC:UPI000003475F; GB:M55994; GB:M38549; NID:9339757; PIDN:AAA36
 R:Dembic, Z.; Loeschner, H.; Gubler, U.; Pan, Y.C.; Lahm, H.W.; Genz, R.; Brockhaus, M.
 Cytokine 2, 231-237, 1990
 A:Title: Two human TNF receptors have similar extracellular, but distinct intracellular,
 A:Reference number: A48416; MUID:91370690; PMID:1965549
 A:Accession: A48416
 A:Status: preliminary
 A:Molecule type: mRNA, protein
 A:Residues: 23-461 <DEM>
 A:Cross-references: UNIPARC:UPI00001736E6; GB:S63368; NID:9235648; PIDN:AA19824.1; PID:
 A:Note: sequence extracted from NCBI Backbone (NCBI:63368, NCBI:63371)
 R:Heiler, R.A.; Song, K.; Onasch, M.A.; Fischer, W.H.; Chang, D.; Ringold, G.M.
 Proc. Natl. Acad. Sci. U.S.A. 87, 6151-6155, 1990
 A:Title: Complementary DNA cloning of a receptor for tumor necrosis factor and demonstr
 A:Reference number: A36007; MUID:90349572; PMID:2166946
 A:Accession: A36007
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 116-140, 'P', 142-195, 'R', 197-362, 'T', 364-461 <HEL>
 A:Cross-references: UNIPARC:UPI000016B4D8; GB:M35857; NID:9339751; PIDN:AAA63262.1; PID:
 R:Loeschner, H.; Schlaeger, E.J.; Lahm, H.W.; Pan, Y.C.B.; Leisner, W.; Brockhaus, M.
 J. Biol. Chem. 265, 20131-20138, 1990
 A:Title: Purification and partial amino acid sequence analysis of two distinct tumor nec
 A:Reference number: A23666; MUID:91056048; PMID:2173696
 A:Accession: A23666
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 23-40, 65-69, 136-141, 300-306 <OE>
 A:Cross-references: UNIPARC:UPI000002B9D; UNIPARC:UPI00001736E7; UNIPARC:UPI00001736E8;
 R:Engelmann, H.; Novick, D.; Wallach, D.
 J. Biol. Chem. 265, 1531-1536, 1990
 A:Title: Two tumor necrosis factor-binding proteins purified from human urine. Evidence
 A:Reference number: A35010; MUID:90110215; PMID:2155136
 A:Accession: B35010
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 27-31 <ENG>
 A:Cross-references: UNIPARC:UPI00001736EA
 R:Kuhmert, P.; Kemper, O.; Wallach, D.
 Gene 150, 381-386, 1994
 A:Title: Cloning, sequencing and partial functional characterization of the 5' region of
 A:Reference number: I38094; MUID:95121934; PMID:7821811
 A:Accession: I38094
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-37 <RES>
 A:Cross-references: UNIPARC:UPI0000006D8; EMBL:X80021; NID:966044; PIDN:CAA56324.1; PI
 C:Genetics:
 A:Gene: GDB:TNFR2
 A:Cross-references: GDB:125914; OMIM:191191
 A:Map position: I36.2-I36.2
 A:Introns: 26/3
 A:Note: the list of introns is incomplete
 C:Superfamily: tumor necrosis factor receptor type 2 (TNFR2); NGF receptor repeat homolo
 C:Keywords: duplication; glycoprotein; receptor; transmembrane protein
 F:1-22/Domin: signal sequence #status predicted <SIG>
 F:23-416/Product: tumor necrosis factor receptor 2 #status experimental <MAT>
 F:40-76/Domin: NGF receptor repeat homology <NG1>
 F:78-119/Domin: NGF receptor repeat homology <NG2>
 F:120-162/Domin: NGF receptor repeat homology <NG3>
 F:164-201/Domin: NGF receptor repeat homology <NG4>
 F:265-279/Domin: transmembrane #status predicted <TMN>
 F:280-461/Domin: intracellular #status predicted <INT>
 F:171, 193/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 12.4%; Score 73; DB 1; Length 461;
 Best Local Similarity 29.5%; Pred. No. 6.4;
 Matches 28; Conservative 8; Mismatch 29; Indels 30; Gaps 6;
 Oy 17 SDCA---VINGAGRD-----VQGAGCCASLMLRLMCTPL-----GREGE- 59
 Db 98 SRCSDDVEIOACTREONRITCTGPRGYCALSK-QEBCRICAPLRKPRGCVARPGTET 156
 Oy 60 -----CHPSHKVPFRKRKHHTCCPLNLLCS 87
 Db 157 SDVCKPCAGCT-----FSMTSTSDICRHQICN 186
 RESULT 15
 S14458
 laminin alpha-1 chain precursor - human
 C:Species: Homo sapiens (man)
 C:Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004
 C:Accession: S14458; S14663; A34961
 R:Haaparanta, T.; Uitto, J.; Ruoslahti, E.; Engvall, E.
 Matrix 11, 151-160, 1991
 A:Title: Molecular cloning of the cDNA encoding human laminin A chain.
 A:Reference number: S14458; MUID:91333420; PMID:1714537
 A:Accession: S14458
 A:Status: not compared with conceptual translation
 A:Molecule type: mRNA
 A:Residues: 1-3075 <HAA>
 A:Cross-references: UNIPROT:P25391; UNIPARC:UPI000012E763
 R:Nashien, M.; Violetteano, R.; Booc-Handford, R.; Kallunki, P.; Tryggvason, K.
 Biochem. J. 276, 369-379, 1991
 A:Title: Primary structure of the human laminin A chain. Limited expression in human tis-
 A:Reference number: S14663; MUID:91264789; PMID:2049067
 A:Accession: S14663
 A:Molecule type: mRNA
 A:Residues: 1-227, 'FR', 230-251, 'MP', 255-418, 'R', 420-518, 'L', 520-1022, 'V', 1024-1074, 'V',
 A:Cross-references: UNIPARC:UPI000016B4B8; EMBL:X55531; NID:934225; PIDN:CAA41418.1; PID
 R:Olsem, D.; Nagayoshi, T.; Fazio, M.; Peltonen, J.; Jaakkola, S.; Sanoorn, D.; Sasaki,
 Lab. Invest. 60, 772-782, 1989
 A:Title: Human laminin: cloning and sequence analysis of cDNAs encoding A, B1 and B2 cha
 A:Reference number: A34961; MUID:89280632; PMID:2733383
 A:Accession: A34961
 A:Status: not compared with conceptual translation
 A:Molecule type: mRNA
 A:Residues: 'W', 2397-2745, 'L', 2747-3053, 'L', 3055-3072, 'PSP' <OLS>
 A:Cross-references: UNIPARC:UPI0000177439
 A:Note: the authors translated the codon AGA for residue 2692 as Pro
 C:Genetics:
 A:Gene: GDB:LAMA1; LAMA
 A:Cross-references: GDB:120135; OMIM:150320
 A:Map position: 18p11.32-18p11.22
 C:Superfamily: laminin alpha-1 chain; laminin G repeat homology; laminin-type EGF-like h
 C:Keywords: basement membrane; calcium binding; cell binding; coiled coil; disulfide bon
 F:1-17/Domin: signal sequence #status predicted <SIG>
 F:18-3075/Product: laminin alpha-1 chain #status predicted <MAT>
 F:18-2693/Domin: VI <DOM6>
 F:270-516/Domin: V <DOM5>
 F:327-334/Domin: laminin-type EGF-like homology <LE1>
 F:337-394/Domin: laminin-type EGF-like homology <LE2>
 F:397-451/Domin: laminin-type EGF-like homology <LE3>
 F:454-500/Domin: laminin-type EGF-like homology <LE4>
 F:503-512/Domin: laminin-type EGF-like homology #status atypical <LE5>
 F:517-708/Domin: IIV <DO4B>
 F:709-1159/Domin: IIV <DO3B>
 F:709-739/Domin: laminin-type EGF-like homology #status atypical <LE6>
 F:747-788/Domin: laminin-type EGF-like homology <LE7>
 F:791-846/Domin: laminin-type EGF-like homology <LE8>
 F:849-899/Domin: laminin-type EGF-like homology <LE9>
 F:902-948/Domin: laminin-type EGF-like homology <LE10>
 F:951-995/Domin: laminin-type EGF-like homology <LE11>
 F:998-1041/Domin: laminin-type EGF-like homology <LE12>
 F:1044-1087/Domin: laminin-type EGF-like homology <LE13>
 F:1090-1109/Domin: laminin-type EGF-like homology #status atypical <LE14>

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OM protein - protein search, using sw model

Run on: March 30, 2006, 17:28:12 ; Search time 230 Seconds
(without alignments)
322.089 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589
Sequence: 1 MRGATRVSYMLLVTSDCA.....CSRPPDGRYRCSDMKININP 105

Scoring table: BLOSUM62
Gap 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 05.80.*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	589	100.0	105	1 PROK1_HUMAN	P58294 homo sapien
2	589	100.0	105	2 OSVWD4_HUMAN	OSVWD4 homo sapien
3	588	99.8	105	2 OBTC69_HUMAN	OBTC69 homo sapien
4	545	92.5	105	1 PROK1_RAT	OR414 ratu mus norv
5	432	73.3	81	2 ORK457_MOUSE	OR457 mus musculu
6	321	54.5	106	2 OR4VU3_TETNG	OR4VU3 tetradon n
7	318	54.0	108	2 OR63H4_BOVIN	OR63H4 bos taurus
8	315	53.5	81	1 VERA_DENPO	P25687 dendroaspis
9	303	51.4	108	2 O6ISR0_HUMAN	O6ISR0 homo sapien
10	298.5	50.7	96	2 OBFP00_BOMMX	OBFP00 bomblina max
11	298	50.6	102	2 O4SR12_TETNG	O4SR12 tetradon n
12	298	50.6	107	1 PROK2_RAT	OR413 ratu mus norv
13	298	50.6	107	2 OS0B37_9MURI	OS0B37 arvicanthi
14	298	50.6	107	2 OS0B38_9MURI	OS0B38 arvicanthi
15	298	50.6	128	2 OS0B35_BOVIN	OS0B35 bos taurus
16	293.5	49.8	96	2 OSW280_BOMOR	OSW280 bomblina ori
17	287.5	48.8	96	1 BV8_BOMVA	O9RW66 bomblina var
18	282.5	48.0	129	1 PROK2_HUMAN	OBTC23 homo sapien
19	282.5	48.0	129	2 OS3279_HUMAN	OS3279 homo sapien
20	277.5	47.1	128	1 PROK2_MOUSE	O9RXU7 mus musculu
21	277.5	47.1	128	1 OS0B33_9MURI	OS0B33 arvicanthi
22	277.5	47.1	128	2 OS0B34_9MURI	OS0B34 arvicanthi
23	277.5	47.1	128	2 OS0B37_RAT	OS0B37 ratu mus norv
24	274.5	46.6	96	2 OBFP66_BOMMX	OBFP66 bomblina max
25	273.5	46.4	96	2 OBFPX8_BOMMX	OBFPX8 bomblina max
26	273.5	46.4	96	2 OBFPX9_BOMMX	OBFPX9 bomblina max
27	269.5	45.8	96	2 OBFPY0_BOMMX	OBFPY0 bomblina max
28	269.5	45.8	96	2 OBFPY2_BOMMX	OBFPY2 bomblina max
29	266.5	45.2	86	2 OS0B35_9MURI	OS0B35 arvicanthi
30	200	34.0	86	2 OS0B36_9MURI	OS0B36 arvicanthi
31	200	34.0	86	2 OS0B36_9MURI	OS0B36 arvicanthi

32	193	32.8	39	2 OS0B61_9MURI	OS0B61 arvicanthi
33	126.5	21.5	124	2 OS6R10_PENMO	OS6R10 penaeus mon
34	112	19.0	96	2 OS0UX3_CHICK	OS0UX3 gallus gall
35	109	18.5	104	2 OS6R11_PACLE	OS6R11 pacifastacu
36	108.5	18.4	221	1 DKK4_MOUSE	OBVEJ3 mus musculu
37	107.5	18.3	224	1 DKK4_HUMAN	O9UB13 homo sapien
38	107.5	18.3	350	1 DKK3_CHICK	O90B39 gallus gall
39	104	17.7	255	2 OS0D44_XENLA	OS0D44 xenopus lae
40	102	17.3	180	2 OS0RUF1_TETNG	O4R11 tetradon n
41	102	17.3	259	1 DKK2_HUMAN	O9UB12 homo sapien
42	101.5	17.2	256	2 OS0H06_GECJA	OS0H06 gekko japon
43	101	17.1	259	1 DKK2_MOUSE	O9QY28 mus musculu
44	101	17.1	259	1 OS0B70_MOUSE	O9QY28 mus musculu
45	101	17.1	272	1 DKK1_MOUSE	OS4908 mus musculu

ALIGNMENTS

RESULT 1	ID	PROK1_HUMAN	STANDARD;	PRT;	105 AA.
AC	P58294;				
DT	16-OCT-2001 (Rel. 40, Last sequence update)				
DT	16-OCT-2001 (Rel. 40, Last sequence update)				
DT	13-SEP-2005 (Rel. 48, Last annotation update)				
DE	Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial growth factor) (EG-VEGF) (Mambakine).				
OS	Name=PROK1; ORFNames=UNQ600/PRO1186;				
OS	Homo sapiens (Human).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae;				
OC	Homo.				
OX	NCBI_TaxID=9606;				
RN	[1]				
RP	NUCLEOTIDE SEQUENCE.				
RX	MEDLINE=2116022; PubMed=11259612;				
RA	Li M., Bullock C.M., Knaier D.J., Ehler F.J., Zhou Q.-Y.,				
RT	"Identification of two prokineticin cDNAs: recombinant proteins potentially contract gastrointestinal smooth muscle.";				
RL	Mol. Pharmacol. 59:692-698 (2001).				
RN	[2]				
RP	NUCLEOTIDE SEQUENCE.				
RX	MEDLINE=21419730; PubMed=11528470; DOI=10.1038/35091000;				
RA	LeCouter J., Kowalewski J., Foster J., Haas P., Zhang Z.,				
RA	dillard-Telm L., Franz G., Rangel L., Deguzman L., Keller G.-A.,				
RA	Peale F., Gurney A., Hillan K.J., Ferrara N.;				
RT	"Identification of an angiogenic mitogen selective for endocrine gland endothelium.";				
RL	Nature 412:877-884 (2001).				
RN	[3]				
RP	NUCLEOTIDE SEQUENCE.				
RA	Fraser C.;				
RT	"Mambakine, a snake venom related endocrine hormone that controls macrophages.";				
RL	Submitted (Apr-2001) to the EMBL/GenBank/DBJ databases.				
RN	[4]				
RP	NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].				
RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;				
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,				
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,				
RA	Bacon D., Foster J.S., Grimaldi C., Gu Q., Haas P.E., Heldens S.,				
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,				
RA	Lewis L., Liao D., Mark M.R., Robble B., Sanchez C., Schoenfeld J.,				
RA	Sehagiri S., Simons L., Singh J., Smith V., Stinson J., Vagtes A.,				
RA	Vandian R.L., Watanabe C., Wood D., Woods K., Xie M.-H.,				
RA	Yanusa D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,				
RA	Wood W.I., Godowski P.J., Gray A.M.;				
RT	"The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment.";				
RL	Genome Res. 13:2265-2270 (2003).				
RN	[5]				

RP PROTEIN SEQUENCE OF 20-34.
 RX PubMed=15340161; DOI=10.1110/ps.04682504;
 RA Zhang Z., Henzel W.J.;
 RT "Signal peptide prediction based on analysis of experimentally
 RT verified cleavage sites."
 RL Protein Sci. 13:2819-2824(2004).
 CC -1-FUNCTION: Potentially contract gastrointestinal (GI) smooth muscle.
 CC Induces proliferation, migration and fenestration (the formation
 CC of membrane discontinuities) in capillary endothelial cells
 CC derived from endocrine glands. Has little or no effect on a
 CC variety of other endothelial and non-endothelial cell types.
 CC -1-SUBCELLULAR LOCATION: Secreted.
 CC -1-TISSUE SPECIFICITY: Expressed in the steroidogenic glands, ovary,
 CC testis, adrenal and placenta.
 CC -1-SIMILARITY: Belongs to the prokinectin family.
 CC -----
 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC EMBL: AF333024; AAK49918.1; -; mRNA.
 CC EMBL: AY029225; AAK33111.1; -; mRNA.
 CC EMBL: AY358683; AAO89046.1; -; mRNA.
 CC HSSP: P25687; 11MT.
 CC ENSG000000143125; Homo sapiens.
 CC HSNL: HGNC:18454; PROKL.
 CC H-INVD: HIX0000868; -.
 CC MIM: 606233; -.
 CC InterPro: IPR009523; Prokinectin.
 CC PANTHER: PTHR18821; Prokinectin, 1.
 CC Pfam: PF06607; Prokinectin, 1.
 CC KW Direct protein sequencing; Growth factor; Mitogen; Signal.
 CC FT SIGNAL 1 19 Prokinectin 1.
 CC FT CHAIN 20 105 By similarity.
 CC FT DISULFID 26 38 By similarity.
 CC FT DISULFID 32 50 By similarity.
 CC FT DISULFID 37 78 By similarity.
 CC FT DISULFID 60 86 By similarity.
 CC FT DISULFID 80 96 By similarity.
 CC SQ SEQUENCE 105 AA; 11715 MW; C7E3FDE30EFB416A CRC64;
 QY Query Match 100.0%; Score 589; DB 1; Length 105;
 QY Best Local Similarity 100.0%; Pred. NO. 9.2e-54;
 QY Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPLGRGESEC 60
 1 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 61 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 DB HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 QY 61 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 DB 1 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 RESULT 2
 OSVMD4_HUMAN
 ID OSVMD4_HUMAN PRELIMINARY; PRT; 105 AA.
 AC OSVMD4;
 DT 01-FEB-2005 (TReMBLrel. 29, Created)
 DT 01-FEB-2005 (TReMBLrel. 29, Last sequence update)
 DT 13-SEP-2005 (TReMBLrel. 31, Last annotation update)
 DE Prokinectin 1.
 GN Name=PROKL; ORFNames=RP11-470L19.1-001;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RA Hall R.;

RL Submitted (May-2005) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RA Wallis J.;
 RT Submitted (May-2005) to the EMBL/GenBank/DBJ databases.
 RL EMBL: AL390797; CAH71489.1; -; Genomic DNA.
 DR EMBL: AL358215; CAH74102.1; -; Genomic DNA.
 DR EMBL: AL358215; CAH71489.1; JOINED; Genomic DNA.
 DR EMBL: AL390797; CAH74102.1; JOINED; Genomic DNA.
 SQ SEQUENCE 105 AA; 11715 MW; C7E3FDE30EFB416A CRC64;
 QY Query Match 100.0%; Score 589; DB 2; Length 105;
 QY Best Local Similarity 100.0%; Pred. NO. 9.2e-54;
 QY Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPLGRGESEC 60
 1 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 61 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 DB HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 QY 61 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 DB 1 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFPRKRRKHTCCPLPMLCSRFPDGRYRCMDLKNINF 105
 RESULT 3
 OSVMD4_HUMAN
 ID OSVMD4_HUMAN PRELIMINARY; PRT; 105 AA.
 AC OSVMD4;
 DT 01-JUN-2002 (TReMBLrel. 21, Created)
 DT 01-JUN-2002 (TReMBLrel. 21, Last sequence update)
 DT 01-MAR-2004 (TReMBLrel. 26, Last annotation update)
 DE Prokinectin 1.
 GN Name=PROKL;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RA Tissue=Testis;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schlier G.D.,
 RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.T., Wang J., Helen F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Uedin T.B., Tohilyuki S., Carninci P., Prange C.,
 RA Raha S.S., Liguori N.A., Peters G.J., Abramson R.D., Mullany S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Vallajon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J.J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilins D.E.,
 RA Schenck A., Schein J.E., Jones S.J.M., Maria M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RC Tissue=Testis;
 RA Strausberg R.;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC025399; AAR25399.1; -; mRNA.
 DR HSSP: P25687; 11MT.
 DR InterPro: IPR009523; Prokinectin.
 DR PANTHER: PTHR18821; Prokinectin, 1.
 DR Pfam: PF06607; Prokinectin, 1.
 SQ SEQUENCE 105 AA; 11729 MW; E570FDE30EFB52D2 CRC64;

Query Match 99.8%; Score 588; DB 2; Length 105;
 Best Local Similarity 99.0%; Pred. No. 1.2e-53;
 Matches 104; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVIMLLTVSDCAVITGACERDVOCAGTCCCAISIMLRGRLMCTPLRGREGSEC 60
 DB 1 MRGATRVIMLLTVSDCAVITGACERDVOCAGTCCCAISIMLRGRLMCTPLRGREGSEC 60

QY 61 HPGSHKVPFPRKRKHHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105
 DB 61 HPGSHKVPFPRKRKHHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105

RESULT 4
 PROK1_RAT STANDARD; PRT; 105 AA.

ID 08R414;
 AC 08R414;
 DT 10-OCT-2003 (Rel. 42, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial growth factor) (EG-VEGF).
 GN Name=Prok1;
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Murinae; Rattus.
 NC NCB1_TaxID=10116;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=Sprague-Dawley;
 RX MEDLINE=22050031; PubMed=12054613; DOI=10.1016/S0006-291X(02)00239-5;
 RA Maeda Y., Takatsu Y., Terao Y., Kumano S., Ishibashi Y., Suenaga M.,
 Abe M., Fukunumi S., Matanabe T., Shintani Y., Yamada T., Hinuma S.,
 Inatomi N., Ohtaki T., Onda H., Fujino M.;
 RT "Isolation and identification of EG-VEGF/prokineticin as cognate
 ligands for two orphan G-protein-coupled receptors.";
 RL Biochem. Biophys. Res. Commun. 293:396-402(2002).
 CC -1- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
 CC Induces proliferation, migration and fenestration (the formation
 CC of membrane discontinuities) in capillary endothelial cells
 CC derived from endocrine glands. Has little or no effect on a
 CC variety of other endothelial and non-endothelial cell types (By
 CC similarity).
 CC -1- SUBCELLULAR LOCATION: Secreted (By similarity).
 CC -1- SIMILARITY: Belongs to the prokinectin family.
 CC -----
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 CC between the Swiss Institute of Bioinformatics and the EMBL Outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC EMBL; AY089983; AAM09104.1; -; mRNA.
 DR HSSP; P25687; 11MT.
 DR Ensembl; ENSRNOG0000018201; Rattus norvegicus.
 DR RGD; 620898; Prok1.
 DR GO; GO:0008283; P:cell proliferation; TAS.
 DR GO; GO:0045765; P:regulation of angiogenesis; NAS.
 DR InterPro; IPR009523; Prokinectin.
 DR PANTHER; PTHR18821; Prokinectin; 1.
 DR Pfam; PF06607; Prokinectin; 1.
 DR Growth factor; Mitogen; Signal.
 FT SIGNAL 1 19 potential.
 FT CHAIN 20 105 Prokinectin 1.
 FT DISULFID 26 38 By similarity.
 FT DISULFID 32 50 By similarity.
 FT DISULFID 37 78 By similarity.
 FT DISULFID 60 86 By similarity.
 FT DISULFID 80 96 By similarity.
 FT SEQUENCE 105 AA; 11643 MW; 8DF0CA2122B1C5B6 CRC64;

Query Match 92.5%; Score 545; DB 1; Length 105;
 Best Local Similarity 89.5%; Pred. No. 3.7e-49;
 Matches 94; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 MRGATRVIMLLTVSDCAVITGACERDVOCAGTCCCAISIMLRGRLMCTPLRGREGSEC 60
 DB 1 MRGATRVIMLLTVSDCAVITGACERDVOCAGTCCCAISIMLRGRLMCTPLRGREGSEC 60

QY 61 HPGSHKVPFPRKRKHHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105
 DB 61 HPGSHKVPFPRKRKHHTCPCLPNILCSRFPDGRYRCSDMLKNINF 105

RESULT 5
 08R457_MOUSE PRELIMINARY; PRT; 81 AA.

ID 08R457;
 AC 08R457;
 DT 01-OCT-2002 (Tremblere, 22, Last sequence update)
 DT 01-OCT-2002 (Tremblere, 22, Last sequence update)
 DT 01-MAR-2004 (Tremblere, 26, Last annotation update)
 DE Prokineticin 1 (Fragment).
 GN Name=Prok1; Synonyms=Pkl1;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Mus.
 NC NCB1_TaxID=10090;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6;
 RX MEDLINE=22022134; PubMed=12024206; DOI=10.1038/417405a;
 RA Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bertak J.C., Belluzzi J.,
 Weaver D.R., Leslie P.M., Zhou Q.-Y.;
 RT "Prokineticin 2 transmits the behavioural circadian rhythm of the
 RT suprachiasmatic nucleus.";
 RL Nature 417:405-410(2002).
 DR EMBL; AF467281; AAM49573.1; -; mRNA.
 DR HSSP; P25687; 11MT.
 DR Ensembl; ENSMUSG00000046213; Mus musculus.
 DR MGI; MGI:2180370; Prok1.
 DR GO; GO:0005576; C:extracellular region; IDA.
 DR GO; GO:0000187; P:activation of MAPK; IDA.
 DR GO; GO:0007623; P:circadian rhythm; TAS.
 DR GO; GO:0008284; P:positive regulation of cell proliferation; IDA.
 DR GO; GO:0045765; P:regulation of angiogenesis; IDA.
 DR InterPro; IPR009523; Prokinectin.
 DR PANTHER; PTHR18821; Prokinectin; 1.
 DR Pfam; PF06607; Prokinectin; 1.
 FT NON_TER 1 1
 FT SEQUENCE 81 AA; 9192 MW; 7BBE3EC6B16A8011 CRC64;

Query Match 73.3%; Score 432; DB 2; Length 81;
 Best Local Similarity 87.7%; Pred. No. 1.8e-37;
 Matches 71; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 25 ACERDVOCAGTCCCAISIMLRGRLMCTPLRGREGSECHPGSHKVPFPRKRKHHTCPCLPNIL 84
 DB 1 ACERDVOCAGTCCCAISIMLRGRLMCTPLRGREGSECHPGSHKVPFPRKRKHHTCPCLPNIL 80

QY 85 LCSRFPDGRYRCSDMLKNINF 105
 DB 61 LCSRFPDGRYRCSDMLKNINF 81

RESULT 6
 04RVU3_TETNG PRELIMINARY; PRT; 106 AA.

ID 04RVU3;
 AC 04RVU3;
 DT 13-SEP-2005 (Tremblere, 31, Created)
 DT 13-SEP-2005 (Tremblere, 31, Last sequence update)
 DT 13-SEP-2005 (Tremblere, 31, Last annotation update)
 DE Chromosome 9 SCAF14991, whole genome shotgun sequence.
 DE (Fragment).

GN ORFName=GSTENG0028169001;
 OS Tetradodon nigroviridis (Green puffer).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
 OC Tetraodonidae; Tetraodontidae; Tetraodon.
 NCBI_TaxId=99883;
 RX NCBI_TaxId=99883;
 RP NUCLEOTIDE SEQUENCE.
 RA Jallion O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,
 RA Maucell E., Bouteau L., Fischer C., Ozouf-Costaz C., Bernot A.,
 RA Micaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
 RA Desliya C., Salenobat M., Levy M., Boudet N., Castellano S.,
 RA Anthonard V., Jabin C., Castell V., Katinka M., Vacherie B.,
 RA Blomont C., Skalli Z., Broctier P., Coutanceau J.P., Gouzy J.,
 RA Cruaud C., Dupret S., Broctier P., Coutanceau J.P., Gouzy J.,
 RA Parra G., Lardier G., Chappelle C., McKernan K.J., McEwan P., Bosak S.,
 RA Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
 RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
 RA Lander V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
 RA Wincker P., Lander E.S., Weissbach J., Roest Scallius H.,
 RA "Genome duplication in the teleost fish Tetradodon nigroviridis reveals
 RT the early vertebrate proto-karyotype.";
 RL Nature 431:946-957(2004).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RG Genoscope, Whitehead Institute Centre for Genome Research;
 RL Submitted (FEF-2004) to the EMBL/GenBank/DBJ databases.
 CC -1- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL: CAE01014991; CAG07489.1; -; Genomic_DNA.
 FT NON TER 106 106
 SQ SEQUENCE 106 AA; 12098 MW; 8D4DC1B388B3052 CRC64;
 QY Query Match 54.5%; Score 321; DB 2; Length 106;
 DB Best Local Similarity 56.4%; Pred. No. 9.5e-26;
 DB Matches 57; Conservative 20; Mismatches 24; Indels 0; Gaps 0;
 QY 4 ATRVSIIMLVTVSDCAVITGACERDVQCGAGTCCTCAISLIRGLRMCTPLGRGSEECPCG 63
 DB 5 AVLSIFLVLSWSRGAVITGAREKHQCCGFLFCVSLIRGLRMCAPRGLBDEDCYPF 64
 QY 64 SHKVPFRKRKHHTCCPLPMLCSRFPDGRRCGMDKXIN 104
 DB 65 SHKVPYGRKHHTCCPLPMLCTFRFDSKRYCTDPRNVD 105
 RESULT 7
 ID 0863H4_BOVIN PRELIMINARY; PRT; 108 AA.
 AC 0863H4;
 DT 01-JUN-2003 (TREMBLrel. 24, Created)
 DT 01-JUN-2003 (TREMBLrel. 24, Last sequence update)
 DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
 DE Bv8/prokinectin 2-like protein splice variant.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Bovinae; Bos.
 NCBI_TaxId=9913;
 RX NCBI_TaxId=9913;
 RP NUCLEOTIDE SEQUENCE.
 RA TISSUE=Testis;
 RX MEDLINE=22612805; PubMed=12728244; DOI=10.1038/gj.embor.embor830;
 RA Kaser A., Winklnay M., Lepperdinger G., Krell G.;
 RT "The AVIT protein family";
 RL EMO Rep. 4:469-473(2003).
 DR EMBL: AY192558; AAP31907.1; -; mRNA.
 DR HSSP; P25687; 11MT.
 DR InterPro; IPR009523; Prokinectin.
 DR PANTHER; PTHR18821; Prokinectin; 1.
 Pfam; PF06607; Prokinectin; 1.

SQ SEQUENCE 108 AA; 11672 MW; C0041039A9B215E CRC64;
 QY Query Match 54.0%; Score 318; DB 2; Length 108;
 DB Best Local Similarity 51.9%; Pred. No. 2e-25;
 DB Matches 54; Conservative 15; Mismatches 27; Indels 8; Gaps 1;
 QY 1 MRGATVSIIMLV-----TVSDCAVITGACERDVQCGAGTCCTCAISLIRGLRMCTP 52
 DB 1 MRSSRCARLLILLLPPLITPPAGDAVITGACDDPQCGGMCACVSLMVSINICTP 60
 QY 53 LGREGECGCHGSHKVPFRKRKHHTCCPLPMLCSRFPDGRYRC 96
 DB 61 MGVGDSCHPMTRKVPFLGRMHHTCCPLPGLACRSRSPFRYTC 104
 RESULT 8
 ID VERA_DENPO STANDARD; PRT; 81 AA.
 AC P256R;
 DT 01-MAY-1992 (Rel. 22, Created)
 DT 13-SEP-2005 (Rel. 48, Last sequence update)
 DT 13-SEP-2005 (Rel. 48, Last annotation update)
 DE Intestinal toxin 1 (Mamba intestinal toxin 1) (MIT1) (Venom
 DE protein A).
 OS Dendroaspis polylepsis polylepsis (Black mamba).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosaurs; Squamata; Scleroglossa; Serpentes; Colubroidae;
 OC Elapidae; Elapinae; Dendroaspis.
 NCBI_TaxId=8620;
 RN [1]
 RP PROTEIN SEQUENCE OF 1-80.
 RC TISSUE=Venom;
 RX MEDLINE=8115818; PubMed=7461607;
 RA Uebert F.J., Scrymgeour D.J.;
 RT "Snake venom. The amino acid sequence of protein A from Dendroaspis
 RT polylepsis polylepsis (Black mamba) venom.";
 RT Hoppe-Seyler's Z. Physiol. Chem. 361:1787-1794(1980).
 RN [2]
 RP PROTEIN SEQUENCE, AND CHARACTERIZATION.
 RC TISSUE=Venom;
 RX MEDLINE=20036442; PubMed=10567694; DOI=10.1016/S0014-5793(99)01459-3;
 RA Schweitz H., Pascaud P., Dichoat S., Moirer D., Lazdunski M.;
 RT "MIT1, a black mamba toxin with a new and highly potent activity on
 RT intestinal contraction.";
 RL FEBS Lett. 461:183-188(1998).
 RN [3]
 RP STRUCTURE BY NMR OF 1-81, AND DISULFIDE BONDS.
 RC TISSUE=Venom;
 RX MEDLINE=8437381; PubMed=9761684; DOI=10.1006/jmbi.1998.2057;
 RA Boisbouvier J., Albrand J.-P., Blackledge M., Jégouin M.,
 RA Schweitz H., Lazdunski M., Marion D.;
 RT "A structural homologue of colipase in black mamba venom revealed by
 RT NMR floating disulphide bridge analysis.";
 RL J. Mol. Biol. 283:205-219(1998).
 CC -1- FUNCTION: Potentially contracts gastrointestinal (GI) smooth muscle.
 CC May act on potassium channels, but not on Kv1.1, Kv1.2, Kv1.3,
 CC Kv1.4, Kv1.5, Kv2.1, Kv3.4, Kv4.2, TREK-1, HERG, KCNQ1, KCNQ2,
 CC KCNQ3, IRK1, IRK2, ROMK1, GIRK1,2 and GIRK4.4.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the prokinectin family.
 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 DR PDB; 1MT; NMR: @1-81.
 KM 3D-structure; Direct protein sequencing; Toxin.
 FT DISULFID 7 19
 FT DISULFID 13 31
 FT DISULFID 18 59
 FT DISULFID 41 67

FT DISULFID 61 77
FT VARIANT 72 72 P -> Q (in protein A').
FT CONFLICT 18 18 C -> S (in Ref. 1).
FT CONFLICT 22 22 S -> C (in Ref. 1).
FT CONFLICT 54 54 R -> RK (in Ref. 1).
SQ SEQUENCE 81 AA; 8604 MW; 5F6B70343338B03 CRC64;

Query Match 53.5%; Score 315; DB 1; Length 81;
Best Local Similarity 62.3%; Pred. No. 3.1e-25;
Matches 48; Conservative 14; Mismatches 15; Indels 0; Gaps 0;

QY 20 AVITGACRDVOCGATCCASLWLGRLMCTPLGRBEECHPGRSHKVPFRKXHTCP 79
DB 1 AVITGACRDVOCGATCCASLWLGRLMCTPLGRBEECHPGRSHKVPFRKXHTCP 60
QY 80 CLPNLCSRPDPGRYRC 96
DB 61 CAPNLACVQTSPPKKFKC 77

RESULT 9
Q6ISRO HUMAN PRELIMINARY; PRT; 108 AA.
AC Q6ISRO;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Prokinecin 2.
GN Name=PROK2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=PCR rescued clones; PubMed=12477932; DOI=10.1073/pnas.242603899;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heide F.,
RA Datchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ueda T.B., Toshiyuki S., Carrinci P., Prange C.,
RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Muliahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buterfield Y.S.N., Krzywinski M.T., Skalska U., Smalins D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences".
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=PCR rescued clones;
RA Strauberg R.;
RL Submitted (APR-2004) to the EMBL/Genbank/DBJ databases.
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=PCR rescued clones;
RG NIH MGC Project;
RL Submitted (MAY-2005) to the EMBL/Genbank/DBJ databases.
RN [4]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=PCR rescued clones;
RG NIH MGC Project;
RL Submitted (JUN-2005) to the EMBL/Genbank/DBJ databases.

DR EMBL; BC069395; AAH69395.1; -, mRNA.
DR EMBL; BC096695; AAH96695.1; -, mRNA.
DR EMBL; BC098110; AAH98110.1; -, mRNA.
DR EMBL; ENSG00000163421; Homo sapiens.
DR InterPro; IPR009523; Prokinecin.
DR Pfam; PF06607; Prokinecin; 1.
SQ SEQUENCE 108 AA; 11659 MW; D7AF89D851A97FC CRC64;

Query Match 51.4%; Score 303; DB 2; Length 108;
Best Local Similarity 55.2%; Pred. No. 7.3e-24;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLVLTWSDCAVITGACRDVOCGATCCASLWLGRLMCTPLGRBEECHPGRSHKVP 69
DB 18 LLLTPRAGDAVAITGACDQSGGCAVSIWVSRITCTPWGLGSDCHPLTRVPV 77
QY 70 FRKXKHTCPCLPNLCSRPDPGRYRC 96
DB 78 FGRRHHTCPCLPCLACTRTSPFRFTC 104

RESULT 10
Q8FQ0 BOMMX PRELIMINARY; PRT; 96 AA.
AC Q8FQ0;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Bv6 protein homolog 2.
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archaeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Skin secretions;
RX MEDLINE=22515712; PubMed=12628381; DOI=10.1016/S1096-4959(02)00294-4;
RA Lai R., Liu H., Lee W.H., Zhang Y.;
RT "Two novel Bv8-like peptides from skin secretions of the toad Bombina
RT maxima".
RL Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514 (2003).
DR EMBL; AF411091; AAH03822.1; -, mRNA.
DR HSSP; P25687; 11MT.
DR InterPro; IPR009523; Prokinecin.
DR PANTHER; PTHR18821; Prokinecin; 1.
DR Pfam; PF06607; Prokinecin; 1.
SQ SEQUENCE 96 AA; 10198 MW; EC4BA5FE49B2F0 CRC64;

Query Match 50.7%; Score 298.5; DB 2; Length 96;
Best Local Similarity 53.6%; Pred. No. 1.9e-23;
Matches 52; Conservative 16; Mismatches 28; Indels 1; Gaps 1;

QY 1 MRGATRSIMLVTVSDCAVITGACRDVOCGATCCASLWLGRLMCTPLGRBEECH 60
DB 1 MKCAQAVLVLLVAFSGHGVITGACDQSGGCAVSIWVSRITCTPWGLGSDCHPLTRVPV 60
QY 61 HPQSHKVPFRKXKHTCPCLPNLCSRPDPGRYRC 97
DB 61 HPASHKVPYNGKRLSSLCPSKSLTSGSGE-KFGCS 96

RESULT 11
Q4SR12 TETNG PRELIMINARY; PRT; 102 AA.
AC Q4SR12;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Chromosome 11 SCAR14528, whole genome shotgun sequence.
DE (Fragment).
GN ORENAMES=GSTENG00014129001;
OS Tetradodon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
 OC Tetraodonidae; Tetraodontidae; Tetraodon.
 OX NCBI_TaxID=99883;
 RN RN
 RP NUCLEOTIDE SEQUENCE.
 RA Jallion O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,
 RA Muccllet E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
 RA Nicaut S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
 RA Desilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
 RA Anthonard V., Jubin C., Castell J.V., Katinka M., Vacherie B.,
 RA Blemont C., Skalli Z., Cattoi L., Poullain J., De Bernardis V.,
 RA Cuand C., Duprat S., Broctier P., Couanceau J.P., Gouzy J.,
 RA Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,
 RA Kellis M., Wolf J.N., Guigo R., Zody M.C., Mesirov J.,
 RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
 RA Lander V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
 RA Wincker P., Lander E.S., Weissbach J., Roest Crolius H.,
 RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
 the early vertebrate proto-karyotype."
 RL Nature 431:946-957(2004).
 RN RN
 RP NUCLEOTIDE SEQUENCE.
 RG Genoscope; Whitehead Institute Centre for Genome Research;
 RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
 CC -1- CAPTION: The sequence shown here is derived from an
 EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 preliminary data.
 CC EMBL; CAKE01014528; CAF96920.1; -; Genomic_DNA.
 DR NON TER 102 102
 FT SEQUENCE 102 AA; 11062 MW; 470A2CDP2D069043 CRC64;
 SQ
 Query Match 50.6%; Score 298; DB 2; Length 102;
 Best Local Similarity 57.8%; Pred. No. 2.3e-23;
 Matches 52; Conservative 9; Mismatches 15; Indels 14; Gaps 1;
 QY 11 LLLVTVSDCAVITGACERDVCGAGTCCATSLMLRGLRMCTPLGREGBCHP----- 62
 DB 11 LLLVSRSSAVITGACERDSCGGGLCCAVSLMRSRLCLMFGABGDCHPSQATSYL 70
 QY 63 -----GSHKVPFPRKXKHHHTPCPLPMLLC 86
 DB 71 VEPSSSSFOVPFPGKRLHHTCPLPLMSC 100
 RESULT 12
 PROK2 RAT STANDARD; PRT; 107 AA.
 ID PROK2 RAT
 AC ORF413;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Prokineticin 2 precursor (PK2).
 GN Name=Prok2; Synonyms=Bv8;
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridea; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN RN
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=Sprague-Dawley;
 RX MEDLINE=22050031; Pubmed=12054613; DOI=10.1016/S0006-291X(02)00239-5;
 RA Masuda Y., Takatsu Y., Terao Y., Kumano S., Ishihashi Y., Suenaga M.,
 RA Abe M., Fukusumi S., Watanabe T., Shintani Y., Yamada T., Hinuma S.,
 RA Inatomi N., Ohtaki T., Onda H., Fujino M.,
 RT "Isolation and identification of EG-VEGF/prokineticin as cognate
 ligands for two orphan G-protein-coupled receptors."
 RL Biochem. Biophys. Res. Commun. 293:396-402(2002).
 [2]
 RP EFFECT ON CIRCADIAN LOCOMOTOR ACTIVITY.
 RX MEDLINE=22022134; Pubmed=12024206; DOI=10.1038/417405a;
 RA Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bertmak J.C., Belluzzi J.,

RA Weaver D.R., Leslie F.M., Zhou Q.-Y.;
 RT "Prokineticin 2 transmits the behavioural circadian rhythm of the
 suprachiasmatic nucleus."
 RL Nature 417:405-410(2002).
 CC -1- FUNCTION: May function as an output molecule from the
 suprachiasmatic nucleus (SCN) that transmits behavioral circadian
 rhythm. May also function locally within the SCN to synchronize
 output. Potentially contracts gastrointestinal (GI) smooth muscle (by
 similarity).
 CC -1- SUBCELLULAR LOCATION: Secreted (by similarity).
 CC -1- TISSUE SPECIFICITY: Expressed at high levels in testis and at
 lower levels in brain, lung, ovary, spleen, thymus and uterus.
 CC -1- INDUCTION: Activated by CLOCK and BMAL1 heterodimers and light;
 inhibited by period genes (PER1, PER2 and PER3) and cryptochrome
 genes (CRY1 and CRY2) (Probable).
 CC -1- SIMILARITY: Belongs to the prokineticin family.
 CC This Swiss-Prot entry is copyrighted. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC
 DR EMBL; AY089984; AM09105.1; -; mRNA.
 DR HSSP; P25687; 1IMT.
 DR Ensembl; ENSRNOG0000010898; Rattus norvegicus.
 DR RGD; 620280; Bv8.
 DR GO; GO:0001664; F-G-protein-coupled receptor binding; IDA.
 DR InterPro; IPR009523; Prokineticin.
 DR PANTHER; PTHR18821; Prokineticin; 1.
 DR Pfam; PF06607; Prokineticin; 1.
 KM Biological rhythm; Neuropeptide; Signal.
 FT SIGNAL 1 26
 FT CHAIN 27 107
 FT DISULFID 33 45 By similarity.
 FT DISULFID 39 57 By similarity.
 FT DISULFID 44 85 By similarity.
 FT DISULFID 67 93 By similarity.
 FT DISULFID 87 103 By similarity.
 SQ SEQUENCE 107 AA; 11594 MW; BDFP316CDB5FED0 CRC64;
 Query Match 50.6%; Score 298; DB 1; Length 107;
 Best Local Similarity 54.0%; Pred. No. 2.4e-23;
 Matches 47; Conservative 16; Mismatches 24; Indels 0; Gaps 0;
 QY 10 LLLVTVSDCAVITGACERDVCGAGTCCATSLMLRGLRMCTPLGREGBCHPGSHKVP 69
 DB 17 LLLTPAGDAAVITGACDSDSCGGGMCQAVSIWKSIRICTPMGVGDSCPLTRKVPF 76
 QY 70 FRKXKHTPCPLPMLLCSPRPDGRVRC 96
 DB 77 WGRMRHHTCPLPGLACLTSPFNRFIC 103
 RESULT 13
 OS0E37 9MURI
 ID OS0E37_9MURI PRELIMINARY; PRT; 107 AA.
 AC OS0E37;
 DT 13-SEP-2005 (TrEMBLrel. 31, Created)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
 DE Prokineticin 2 variant 18/2/4.
 GN Name=Prok2;
 OS Africanthlis niloticus (African grass rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Arvicanthis.
 OX NCBI_TaxID=61156;
 RN RN
 RP NUCLEOTIDE SEQUENCE.
 RP Pubmed=15851527; DOI=10.1177/0748730405275135;
 RA Lambert C.M., Machida K.K., Smale L., Nunez A.A., Weaver D.R.;
 RT "Analysis of the Prokineticin 2 System in a Diurnal Rodent, the

RT Unstripped Nile Grass Rat (Arvicanthus niloticus).";
 RL J. Biol. Rhythms 20:206-218 (2005).
 DR EMBL: AY820155; AAV3831.1; -; mRNA.
 SQ SEQUENCE 107 AA; 11597 MW; CFAE894734361BB CRC64;

Query March 50.6%; Score 298; DB 2; Length 107;
 Best Local Similarity 49.0%; Pred. No. 2.4e-23;
 Matches 50; Conservative 19; Mismatches 25; Indels 8; Gaps 1;

QY 3 GATRVISIMLLVTV-----SDCAVITGACERDVQCGAGTCCATISLMLRGLRMCTP 54
 DB 2 GDCPCARLLLLLLPILTPPSGDAVITGACDSDSCGGGMCACAVSIWVKSIRICTP 61
 QY 55 REGECCHPGSHKVPFPRKRKHTCPCLPNLLCSRPPDGRYRC 96
 DB 62 QVGDSCHPLTRKVPFWRMRHTCPCLPGLACLRITSFNRFTIC 103

RESULT 14
 O50E38_9MURI PRELIMINARY; PRT; 107 AA.
 AC Q50E38;
 DT 13-SEP-2005 (Tremblrel. 31, Created)
 DT 13-SEP-2005 (Tremblrel. 31, Last sequence update)
 DE Prokineticin 2 variant 1A/2/4.
 GN Name=Prok2;
 OS Arvicanthus niloticus (African grass rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Arvicanthis.
 OX NCBI_TaxID=61156;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX PubMed=15851527; DOI=10.1177/0748730405275135;
 RA Lambert C.M., Machida K.K., Smale L., Nunez A.A., Weaver D.R.;
 RT "Analysis of the Prokineticin 2 System in a Diurnal Rodent, the
 RL Unstripped Nile Grass Rat (Arvicanthus niloticus).";
 DR EMBL: AY820154; AAV3830.1; -; mRNA.
 SQ SEQUENCE 107 AA; 11581 MW; DDBDB472B5C8045 CRC64;

Query March 50.6%; Score 298; DB 2; Length 107;
 Best Local Similarity 54.0%; Pred. No. 2.4e-23;
 Matches 47; Conservative 16; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLLLVTSDCAVITGACERDVQCGAGTCCATISLMLRGLRMCTPGRGEGCHPGSHKVPF 69
 DB 17 LLLTPRAGDAVITGACDSDSCGGGMCACAVSIWVKSIRICTPVGQVGDSCHPLTRKVPF 76
 QY 70 FRKRKHTCPCLPNLLCSRPPDGRYRC 96
 DB 77 WGRMRHTCPCLPGLACLRITSFNRFTIC 103

RESULT 15
 Q863H5_BOVIN PRELIMINARY; PRT; 128 AA.
 ID Q863H5; BOVIN PRELIMINARY;
 AC Q863H5;
 DT 01-JUN-2003 (Tremblrel. 24, Created)
 DT 01-JUN-2003 (Tremblrel. 24, Last sequence update)
 DT 01-MAR-2004 (Tremblrel. 26, Last annotation update)
 DE Bv8/prokineticin 2-like protein.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 OC Pecora; Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=22612805; PubMed=12728244; DOI=10.1038/sj.embor.embor830;
 RA Kaser A., Winklmayr M., Leppertinger G., Kreil G.;

RT "The AVIT protein family.";
 RL EMBO Rep. 4:469-473 (2003).
 DR EMBL: AY192557; AAP1906.1; -; mRNA.
 DR HSSP; P25687; IMT.

DR GO:0005576; C:extracellular region; ISS.
 DR GO:0001664; F:G-protein-coupled receptor binding; ISS.
 DR GO:0000187; P:activation of MAPK; ISS.
 DR GO:00006916; P:angiogenesis; ISS.
 DR GO:00006916; P:anti-apoptosis; ISS.
 DR GO:00008283; P:cell proliferation; ISS.
 DR GO:0006935; P:chemotaxis; ISS.
 DR GO:0007186; P:G-protein coupled receptor protein signalin. . .; ISS.
 DR GO:0006954; P:inflammatory response; ISS.
 DR GO:00019233; P:perception of pain; ISS.
 DR GO:0007204; P:positive regulation of cytosolic calcium io. . .; ISS.
 DR GO:0045987; P:positive regulation of smooth muscle contra. . .; ISS.
 DR GO:0007283; P:permatogenesis; ISS.
 DR InterPro: IPR009523; Prokineticin.
 DR PANTHER: PTHR18621; Prokineticin; 1.
 DR Pfam: PF06607; Prokineticin; 1.
 SQ SEQUENCE 128 AA; 14290 MW; C22CDBDE40483EC CRC64;

Query March 50.6%; Score 298; DB 2; Length 128;
 Best Local Similarity 43.5%; Pred. No. 2.9e-23;
 Matches 54; Conservative 15; Mismatches 27; Indels 28; Gaps 2;

QY 1 MRGATRVISIMLLV-----TVSDCAVITGACERDVQCGAGTCCATISLMLRGLRMCTP 52
 DB 1 MRSSRCARLLLLPILTPRAGDAVITGACDRDPQCGGMCACAVSIWVKSIRICTP 60
 QY 53 LGRGEGCHPGSH-----KVPFPRKRKHTCPCLPNLLCSRPPDGR 92
 DB 61 MGKVGDSCHPMTRKTHFNGRGRKRKRKRKVPPLGRMRHTCPCLPGLACSRFSFN 120
 QY 93 RYRC 96
 DB 121 RYTC 124

Search completed: March 30, 2006, 17:34:51
 Job time : 232 secs

THE DOBSON

; NUMBER OF SEQ ID NOS: 7

NUMBER OF SEQ ID NOS: 7

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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-201A-5

Query Match          100.0%; Score 589; DB 2; Length 105;
Best Local Similarity 100.0%; Pred. NO. 1.2e-58;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MRGATRSIMLLTVSDCAVITGACERDVQCGAGTCCALSIMRGRLMCTPLGRSESEC 60
Db      1 MRGATRSIMLLTVSDCAVITGACERDVQCGAGTCCALSIMRGRLMCTPLGRSESEC 60

Qy      61 HPGSHKVPFRKRKHHTCPCLPNLLCSRFPGGRYRCMDLKNINF 105
Db      61 HPGSHKVPFRKRKHHTCPCLPNLLCSRFPGGRYRCMDLKNINF 105

RESULT 3
US-10-212-355-5
; Sequence 5, Application US/1021355
; Patent No. 6828425
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212.355
; CURRENT FILING DATE: 2002-08-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-355-5

Query Match          100.0%; Score 589; DB 2; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.2e-58;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MRGATRSIMLLTVSDCAVITGACERDVQCGAGTCCALSIMRGRLMCTPLGRSESEC 60
Db      1 MRGATRSIMLLTVSDCAVITGACERDVQCGAGTCCALSIMRGRLMCTPLGRSESEC 60

Qy      61 HPGSHKVPFRKRKHHTCPCLPNLLCSRFPGGRYRCMDLKNINF 105
Db      61 HPGSHKVPFRKRKHHTCPCLPNLLCSRFPGGRYRCMDLKNINF 105

RESULT 4
US-09-991-181-371
; Sequence 371, Application US/09991181
; Patent No. 6913919
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertelsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavain, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tuma, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C53
; CURRENT APPLICATION NUMBER: US/09/991.181
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
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; PRIOR FILING DATE: 1998-03-20
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; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
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; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
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; PRIOR APPLICATION NUMBER: 60/088734
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; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
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PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
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PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
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PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
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PRIOR FILING DATE: 1998-06-12
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PRIOR APPLICATION NUMBER: 60/089512
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PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
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PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-22
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PRIOR APPLICATION NUMBER: 60/090254
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
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PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 2; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,2e-58;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MEGATRSIMLLVTVSDCAVITGACERDVQCGAGTCCASIMLRGIMCTPIGRBEEC 60
Db 1 MEGATRSIMLLVTVSDCAVITGACERDVQCGAGTCCASIMLRGIMCTPIGRBEEC 60
Qy 61 HPSSHKVPPFRKRRKHTCPCLPNLCSRPDPGRYRCMDLKNINF 105
Db 61 HPSSHKVPPFRKRRKHTCPCLPNLCSRPDPGRYRCMDLKNINF 105

RESULT 5
US-09-990-444-371
Sequence 371, Application US/09990444
Patent No. 6930170
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Batou, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730F1C19
CURRENT APPLICATION NUMBER: US/09/990,444
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 2; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.2e-58;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGRATRVSIMLLVTSVCAYITGACERDVCGAGTCCASIMLRGLMCTPLRGREGREC 60
Db 1 MGRATRVSIMLLVTSVCAYITGACERDVCGAGTCCASIMLRGLMCTPLRGREGREC 60
Qy 61 HPGSHKVPFFRRKXKHTCPCLPNLLCSRFPPGRRYSCMDLNINF 105
Db 61 HPGSHKVPFFRRKXKHTCPCLPNLLCSRFPPGRRYSCMDLNINF 105

RESULT 6
US-09-997-333-371

Sequence 371, Application US/09997333

Patent No. 6953836

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Deemoyers, Luc

APPLICANT: Batton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerltisen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tamas, Daniel

APPLICANT: Tamas, Daniel

APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C97
CURRENT APPLICATION NUMBER: US/09/997,333
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 2; Length 105;
Best Local Similarity 100.0%; Pred.No. 1,2e-58;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MEGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCASIMLRGLRMCTPLRGREGERC 60
Db 1 MEGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCASIMLRGLRMCTPLRGREGERC 60

Qy 61 HPGSHKVPFFRRKXKHTCPCLPNLLCSRPDPGRYRCMDLKINF 105
Db 61 HPGSHKVPFFRRKXKHTCPCLPNLLCSRPDPGRYRCMDLKINF 105

RESULT 7
US-09-992-598-371

; Sequence 371, Application US/09992598

; Patent No. 6956108

; GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Baton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Geriltsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tuma, Daniel
;; APPLICANT: Tuma, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C20
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
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PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090682
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 2; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,2e-58;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLGRLMCTPLGRGESEC 60
DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLGRLMCTPLGRGESEC 60
61 HPGSHKVPFFRRKRKHTCPCLPNLLCSRFDPGRYRCMDLKNINF 105
DB 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSRFDPGRYRCMDLKNINF 105

RESULT 8
US-09-621-976-5350
Sequence 5350, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J. B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J. Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 5350
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -19...-1
NAME/KEY: UNSURE
LOCATION: 38
OTHER INFORMATION: Xaa = Ala,Gly
US-09-621-976-5350

Query Match 98.0%; Score 577; DB 2; Length 105;
Best Local Similarity 97.1%; Pred. No. 2,7e-57;
Matches 102; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLGRLMCTPLGRGESEC 60

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DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLGRLMCTPLGRGESEC 60
QY 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSRFDPGRYRCMDLKNINF 105
DB 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSRFDPGRYRCMDLKNINF 105

RESULT 9
US-09-513-999C-4698
Sequence 4698, Application US/09513999C
Patent No. 6783961
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J. B.
APPLICANT: Duclert, A. Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59.US2.REG
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 4698
LENGTH: 80
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -19...-1
OTHER INFORMATION: seq VSIMLLVTVSDC/AV
US-09-513-999C-4698

Query Match 76.1%; Score 448; DB 2; Length 80;
Best Local Similarity 98.8%; Pred. No. 5,8e-43;
Matches 79; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLGRLMCTPLGRGESEC 60
DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLGRLMCTPLGRGESEC 60
QY 61 HPGSHKVPFFRRKRKHTCPC 80
DB 61 HPGSHKVPFFRRKRKHTCPC 80

RESULT 10
US-09-712-529-2
Sequence 2, Application US/09712529
Patent No. 6485938
GENERAL INFORMATION:
APPLICANT: Shepard, Paul O.
APPLICANT: Bishop, Paul D.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Thompson, Penny P.
TITLE OF INVENTION: Human Zven Proteins
FILE REFERENCE: 99-81
CURRENT APPLICATION NUMBER: US/09/712,529
CURRENT FILING DATE: 2000-11-14
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FaalSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 108
TYPE: PRT
ORGANISM: Homo sapiens
US-09-712-529-2

Query Match 51.4%; Score 303; DB 2; Length 108;
Best Local Similarity 55.2%; Pred. No. 1,5e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

Qy 10 MLTAVTSDCAVITGACERDVQCGAGTCCATSLMLRGLRMCTPLGRBEGECHPGSHKVPF 69
Db 18 LLTPRAGDAVITGACDKDSQCGGCMCAVSIWKSIRICTPMGKLDSCHPLTRKVPF 77
Qy 70 FRKRKHTCPCPLNLCSRFDPGRYRC 96
Db 78 FGRMRHTCPCPLGLACLRISFNRFIC 104

RESULT 11
US-10-212-201A-2
Sequence 2, Application US/10212201A
Patent No. 6756479
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Bishop, Paul D.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Thompson, Penny P.
TITLE OF INVENTION: Human Zven Proteins
FILE REFERENCE: 99-81
CURRENT APPLICATION NUMBER: US/10/212,201A
CURRENT FILING DATE: 2002-08-02
PRIOR APPLICATION NUMBER: US/09/712,529
PRIOR FILING DATE: 2000-11-14
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 108
TYPE: PRT
ORGANISM: Homo sapiens
US-10-212-201A-2

Query Match 51.4%; Score 303; DB 2; Length 108;
Best Local Similarity 55.2%; Pred. No. 1,5e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

Qy 10 MLTAVTSDCAVITGACERDVQCGAGTCCATSLMLRGLRMCTPLGRBEGECHPGSHKVPF 69
Db 18 LLTPRAGDAVITGACDKDSQCGGCMCAVSIWKSIRICTPMGKLDSCHPLTRKVPF 77

Qy 70 FRKRKHTCPCPLNLCSRFDPGRYRC 96
Db 78 FGRMRHTCPCPLGLACLRISFNRFIC 104

RESULT 12
US-10-212-355-2
Sequence 2, Application US/10212355
Patent No. 6828425
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Bishop, Paul D.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Thompson, Penny P.
TITLE OF INVENTION: Human Zven Proteins
FILE REFERENCE: 99-81
CURRENT APPLICATION NUMBER: US/10/212,355
CURRENT FILING DATE: 2002-08-02
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 108
TYPE: PRT
ORGANISM: Homo sapiens
US-10-212-355-2

Query Match 51.4%; Score 303; DB 2; Length 108;
Best Local Similarity 55.2%; Pred. No. 1,5e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

Qy 10 MLTAVTSDCAVITGACERDVQCGAGTCCATSLMLRGLRMCTPLGRBEGECHPGSHKVPF 69
Db 18 LLTPRAGDAVITGACDKDSQCGGCMCAVSIWKSIRICTPMGKLDSCHPLTRKVPF 77

Db 18 LLTPRAGDAVITGACDKDSQCGGCMCAVSIWKSIRICTPMGKLDSCHPLTRKVPF 77
Qy 70 FRKRKHTCPCPLNLCSRFDPGRYRC 96
Db 78 FGRMRHTCPCPLGLACLRISFNRFIC 104

RESULT 13
US-09-161-241-14
Sequence 14, Application US/09161241
Patent No. 6344541
GENERAL INFORMATION:
APPLICANT: Bass, Michael B
APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars B
APPLICANT: Wang, Daqiang
TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
FILE REFERENCE: A-548
CURRENT APPLICATION NUMBER: US/09/161,241
CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ ID NOS: 78
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 224
TYPE: PRT
ORGANISM: Human
US-09-161-241-14

Query Match 18.3%; Score 107.5; DB 2; Length 224;
Best Local Similarity 35.5%; Pred. No. 0.00028;
Matches 22; Conservative 5; Mismatches 32; Indels 3; Gaps 1;

Qy 25 ACERDVQCGAGTCCATSLMLRGLRMCTPLGRBEGECHPGSHKVPFRRKRKHTCPCPLNL 84
Db 144 SCLATPQGGPGLCCARHFW---TKICKPVLLBQVCSRRGHKDTAQAPEIFQDCGPGGL 200

Qy 85 LC 86
Db 201 LC 202

RESULT 14
US-09-949-016-7146
Sequence 7146, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7146
LENGTH: 186
TYPE: PRT
ORGANISM: Human
US-09-949-016-7146

Query Match 17.3%; Score 102; DB 2; Length 186;
Best Local Similarity 31.5%; Pred. No. 0.00095;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy 26 CERDVQCGAGTCCATSLMLRGLRMCTPLGRBEGECH---HPGSHKVPFRRKRKHTCPCPL 81
Db 110 CLRSSDCLBGCARHFW---TKICKPVLLBQVCSRRGHKDTAQAPEIFQDCGPGGL 161

QY 82 PNLCGRFPDGRY 94
DB 162 KGLSCKWMDATY 174

RESULT 15
US-09-161-241-13
; Sequence 13; Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Baese, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-13

Query Match 17.3%; Score 102; DB 2; Length 207;
Best Local Similarity 31.5%; Pred. No. 0.0011;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;
QY 26 CERDVQCGAGTCCALISLMLGLMCTPLGRGEC---HPSHKVFPFRKRKHTCPCL 81
DB 131 CLRSSDCIEGFCCKRHFW---TKICKPVLRHGEVCTKORKKKSHGLEIFOR----CDCA 182
QY 82 PNLCGRFPDGRY 94
DB 183 KGLSCKWMDATY 195

Search completed: March 30, 2006, 17:36:29
Job time : 48 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 30, 2006, 17:46:32 ; Search time 167 Seconds
(without alignments)
262.707 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589
Sequence: 1 MRGATRVSMILLVTSQCA.....CSRFPDGRYRCMDLKNINF 105

Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_A1_Main:

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	589	100.0	105	US-09-989-722-371	Sequence 371, App
2	589	100.0	105	US-09-989-723-371	Sequence 371, App
3	589	100.0	105	US-09-989-279-371	Sequence 371, App
4	589	100.0	105	US-09-989-727-371	Sequence 371, App
5	589	100.0	105	US-09-989-731-371	Sequence 371, App
6	589	100.0	105	US-09-989-732-371	Sequence 371, App
7	589	100.0	105	US-09-991-073-371	Sequence 371, App
8	589	100.0	105	US-09-990-442-371	Sequence 371, App
9	589	100.0	105	US-09-991-163-371	Sequence 371, App
10	589	100.0	105	US-09-993-604-371	Sequence 371, App
11	589	100.0	105	US-09-990-456-371	Sequence 371, App
12	589	100.0	105	US-09-989-721-371	Sequence 371, App
13	589	100.0	105	US-09-992-598-371	Sequence 371, App
14	589	100.0	105	US-09-886-242A-2	Sequence 2, Appl1
15	589	100.0	105	US-09-989-293A-371	Sequence 11, Appl1
16	589	100.0	105	US-09-965-528-11	Sequence 371, App
17	589	100.0	105	US-09-989-735-371	Sequence 371, App
18	589	100.0	105	US-09-990-444-371	Sequence 371, App
19	589	100.0	105	US-09-991-181-371	Sequence 371, App
20	589	100.0	105	US-09-989-730-371	Sequence 371, App
21	589	100.0	105	US-09-990-436-371	Sequence 371, App
22	589	100.0	105	US-09-993-687-371	Sequence 371, App
23	589	100.0	105	US-09-989-734-371	Sequence 371, App
24	589	100.0	105	US-09-997-653-371	Sequence 371, App
25	589	100.0	105	US-09-989-724-371	Sequence 371, App
26	589	100.0	105	US-09-989-728-371	Sequence 371, App
27	589	100.0	105	US-09-990-441-371	Sequence 371, App

28	589	100.0	105	US-09-993-667-371	Sequence 371, App
29	589	100.0	105	US-09-997-428-371	Sequence 371, App
30	589	100.0	105	US-09-997-666-371	Sequence 371, App
31	589	100.0	105	US-09-990-438-371	Sequence 371, App
32	589	100.0	105	US-09-990-562-371	Sequence 371, App
33	589	100.0	105	US-09-796-753-64	Sequence 64, Appl1
34	589	100.0	105	US-09-990-711-371	Sequence 371, App
35	589	100.0	105	US-09-989-726-371	Sequence 371, App
36	589	100.0	105	US-09-998-156-371	Sequence 371, App
37	589	100.0	105	US-09-990-437-371	Sequence 371, App
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39	589	100.0	105	US-09-997-514-371	Sequence 371, App
40	589	100.0	105	US-09-997-573-371	Sequence 371, App
41	589	100.0	105	US-09-991-172-371	Sequence 371, App
42	589	100.0	105	US-09-990-726-371	Sequence 371, App
43	589	100.0	105	US-09-997-559-371	Sequence 371, App
44	589	100.0	105	US-09-997-601-371	Sequence 371, App
45	589	100.0	105	US-09-990-443-371	Sequence 371, App

ALIGNMENTS

RESULT 1
US-09-989-722-371
Sequence 371, Application US/09989722
Patent No. US20020072067A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottlieb, Mary E.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC53
CURRENT APPLICATION NUMBER: US/09/989, 722
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28


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;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 MRGATRVSMILLVSDCAVITGACERDVCGAGTCCALISLWLRGAMCTPLGREGSEC 60

Oy      61 HPGSHKVPFRFRKHKHTCPCLPNLLCSRFPGGRYRCSMDLNKNINF 105
Db      61 HPGSHKVPFRFRKHKHTCPCLPNLLCSRFPGGRYRCSMDLNKNINF 105

RESULT 2
US-09-989-723-371
; Sequence 371, Application US/09989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Grimaldi, O. Christopher
; APPLICANT: Gurney, Auelin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C62
; CURRENT APPLICATION NUMBER: US/09/989,723
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR APPLICATION NUMBER: 60/078910
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; PRIOR APPLICATION NUMBER: 60/083322
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;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088861
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;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982

PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09
Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGRATRSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLIRGLRMCTPIGRGEEEC 60
Db 1 MGRATRSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLIRGLRMCTPIGRGEEEC 60
Qy 61 HPGSHKVPFPRKRRKHTCPCLPNLCSRPDPGRGRCSMDKKNINF 105
Db 61 HPGSHKVPFPRKRRKHTCPCLPNLCSRPDPGRGRCSMDKKNINF 105
RESULT 3
US-09-989-279-371
Sequence 371, Application US/09989279
Patent No. US20020072496A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gutney, Austin L.
APPLICANT: Kijavrin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC56
CURRENT APPLICATION NUMBER: US/09/989, 279
CURRENT FILING DATE: 2001-11-19
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PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE:	1998-07-09

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Query Match      100.0%; Score 589; DB 3; Length 105;
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Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-09-989-727-371
; Sequence 371, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Inc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlisen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C65
; CURRENT APPLICATION NUMBER: US/09/989,727
; PRIOR FILING DATE: 2001-11-19
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,4e-53;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRGATRVSIMLLTVSDCAVITGACERDVCGAGTCCATSLMRGLMCTPLGREGEC 60
Db 1 MRGATRVSIMLLTVSDCAVITGACERDVCGAGTCCATSLMRGLMCTPLGREGEC 60
Qy 61 HPGSHKVPFPRKRGHHTCTPCPLNLLCSRFPPGRRRCSDMLKNINP 105
Db 61 HPGSHKVPFPRKRGHHTCTPCPLNLLCSRFPPGRRRCSDMLKNINP 105
RESULT 5
US-09-989-731-371
Sequence 371, Application US/09989731
Patent No. US20020103125A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deanoys, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottlieb, Mary E.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C70
CURRENT FILING DATE: US/09/989, 731
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 MRGATRVSIMLWTVSDCAVITGACERDVQCGAGTCCAIStLWLRGIRMCTPLGRBEGEC 60

Db 1 MRGATRSIMLLVTSQCAVITGACERDVCCAGTCAISLMTGLMCTPLRBBEC 60
Cy 61 HPGSHKVPFFRKRGHTCPCLPNLLCSRFPGGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFFRKRGHTCPCLPNLLCSRFPGGRYRCSDMLKNINF 105

RESULT 6
US-09-989-732-371
Sequence 371, Application us/09989732
Patent No. US20020123463A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavich, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C57
CURRENT APPLICATION NUMBER: US/09/989,732
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/043787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1998-07-07
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1, 4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRGATRVSIMLLVTVSDCAVITGACGRDVOGCGAGTCCALISLWIRGLRMCTPLGRSGECC 60

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US-09-991-073-371
Sequence 371, Application US/09991073
Patent No. US20020127576A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gutney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC15
CURRENT APPLICATION NUMBER: US/09/991, 073
CURRENT FILING DATE: 2001-11-14
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PRIOR APPLICATION NUMBER: 60/088861	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/090695	PRIOR FILING DATE: 1998-06-25
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PRIOR APPLICATION NUMBER: 60/089512	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/091360	PRIOR FILING DATE: 1998-07-01
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Query Match	100.0%	Score 589	DB 3	Length 105
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Matches 105	Conservative 0	Mismatches 0	Indels 0	Gaps 0
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QY	61	HPSSHVPPFRKXKHTKTCPLNLLCSRPDRYKCSMDLNINP	105	
DB	61	HPSSHVPPFRKXKHTKTCPLNLLCSRPDRYKCSMDLNINP	105	

RESULT 8
US-09-990-442-371
Sequence 371, Application US/09990442
Patent No. US2002013252A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Aubin L.
APPLICANT: Kijavitt, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OR INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P18
CURRENT APPLICATION NUMBER: US/09/990,442
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
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PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
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Sequence 371, Application US/09991163
Patent No. US20020132253A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
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APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C17
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; Patent No. US20020137075A1
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APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
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APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
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US-09-990-456-371
; Sequence 371. Application US/09990456
; Patent No. US20020137890A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.

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APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC22
CURRENT APPLICATION NUMBER: US/09/990,456
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
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Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 HPGSHKVPFPRKRKHHTCPCLPNLCSRFPRGRRYRCSDMLDNINP 105

RESULT 12
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Sequence 371, Application US/09989721
Patent No. US20020142961A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gettel, Hanspeter
APPLICANT: Gettisen, Mary E.
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APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
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APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C55
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RESULT 13
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter

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;; APPLICANT: Godowski, Paul J.
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;; TITLE OF INVENTION: Acids Encoding the Same
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLWVTSDCAVITGACERDVQCGAGTCAISLWLRGLRMCTPIGRGESEC 60
Db 1 MRGATRVSIMLWVTSDCAVITGACERDVQCGAGTCAISLWLRGLRMCTPIGRGESEC 60

Qy 61 HPSSHVKVPPFRKXKHTCPCLPWLCSRFEDGRYRCSDMKKNIF 105
Db 61 HPSSHVKVPPFRKXKHTCPCLPWLCSRFEDGRYRCSDMKKNIF 105

RESULT 14
US-09-886-242A-2
; Sequence 2, Application US/0986242A
; Patent No. US20020172678A1
; GENERAL INFORMATION:
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Watanabe, Colin
; TITLE OF INVENTION: EG-VEGF NUCLEIC ACIDS AND POLYPEPTIDES
; TITLE OF INVENTION: AND METHODS OF USE
; FILE REFERENCE: GENENT 1516A
; CURRENT APPLICATION NUMBER: US/09/886,242A
; CURRENT FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 60/230,978
; PRIOR FILING DATE: 2000-09-07
; PRIOR APPLICATION NUMBER: US 60/213,637
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;; PRIOR FILING DATE: 2000-06-23
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/096,146
;; PRIOR FILING DATE: 1998-08-11
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: 2000-12-01
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: 2000-03-30
;; PRIOR APPLICATION NUMBER: PCT/US00/04914
;; PRIOR FILING DATE: 2000-02-24
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: 1999-06-02
;; PRIOR APPLICATION NUMBER: US 09/709,238
;; PRIOR FILING DATE: 2000-11-08
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 18
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;; SEQ ID NO 2
;; LENGTH: 105
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-886-242A-2

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1,4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGRATRVSIMLTVSDCAVITGACERDVCGAGTCCAIISLWRLGMLMCTPLRGEGEC 60
Db 1 MGRATRVSIMLTVSDCAVITGACERDVCGAGTCCAIISLWRLGMLMCTPLRGEGEC 60
61 HPGSHKVPFRKRRKHTCPCLPNLCSRFPDGRYRCSMDLNINF 105
Db 61 HPGSHKVPFRKRRKHTCPCLPNLCSRFPDGRYRCSMDLNINF 105

RESULT 15
US-09-989-293A-371
Sequence 371, Application US/09989293A
Patent No. US2002017164A1
GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gottard, Audrey E.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: KJawin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C6
CURRENT APPLICATION NUMBER: US/09/989,293A

;; CURRENT FILING DATE: 2001-11-20
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
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;; PRIOR FILING DATE: 1997-10-17
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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 3; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPIGRGEEC 60
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Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPIGRGEEC 60
Qy 61 HPGSHKVPPFRKRKHTCPCLPNLCSRPDPDGRYRCSMDLKNINF 105
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Db 61 HPGSHKVPPFRKRKHTCPCLPNLCSRPDPDGRYRCSMDLKNINF 105

Search completed: March 30, 2006, 17:50:07
Job time : 169 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: March 30, 2006, 17:47:27 ; Search time 25 Seconds
(without alignments)
127.856 Million cell updates/sec

Title: US-10-692-299-2
Perfect score: 589
Sequence: 1 MRGATRVSLMLLVTSQCA.....CSRPPDGRYCSMDLKNINF 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 180808 seqs, 30441898 residues

Total number of hits satisfying chosen parameters: 180808

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- 1: /SIDBS/ptodata/1/pubpaa/US08_NEW_PUB pep.*
- 2: /SIDBS/ptodata/1/pubpaa/US06_NEW_PUB pep.*
- 3: /SIDBS/ptodata/1/pubpaa/US07_NEW_PUB pep.*
- 4: /SIDBS/ptodata/1/pubpaa/PCF_NEW_PUB pep.*
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- 8: /SIDBS/ptodata/1/pubpaa/US60_NEW_PUB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	589	100.0	105	US-10-131-826A-470	Sequence 470, App
2	589	100.0	105	US-10-973-115B-470	Sequence 470, App
3	588	99.8	105	US-10-475-075-194	Sequence 194, App
4	582	98.8	105	US-10-475-075-193	Sequence 193, App
5	582	98.8	105	US-10-475-075-477	Sequence 477, App
6	580	98.5	105	US-11-073-420-31	Sequence 31, App
7	572	97.1	105	US-11-073-420-28	Sequence 28, App
8	498	84.6	86	US-11-073-420-11	Sequence 11, App
9	455	77.2	86	US-11-073-420-12	Sequence 12, App
10	413	70.1	86	US-11-073-420-17	Sequence 17, App
11	376	63.8	81	US-11-073-420-16	Sequence 16, App
12	315	53.5	80	US-11-073-420-15	Sequence 15, App
13	300	50.9	108	US-11-073-420-6	Sequence 6, App
14	291	49.4	81	US-11-073-420-9	Sequence 9, App
15	286	48.6	80	US-11-073-420-10	Sequence 10, App
16	284	48.2	81	US-11-073-420-37	Sequence 37, App
17	267.5	45.4	77	US-11-073-420-14	Sequence 14, App
18	250.5	42.5	75	US-11-073-420-13	Sequence 13, App
19	107.5	18.3	224	US-11-255-790-5	Sequence 5, App
20	107.5	18.3	350	US-11-255-790-38	Sequence 38, App
21	102	17.3	179	US-11-255-790-11	Sequence 11, App
22	102	17.3	263	US-11-255-790-21	Sequence 21, App
23	101	17.1	272	US-11-255-790-36	Sequence 36, App
24	100.5	17.1	215	US-11-072-512-2196	Sequence 2196, App
25	100.5	17.1	350	US-10-063-703-8	Sequence 8, App

26	100.5	17.1	350	7	US-11-102-240-8	Sequence 8, App
27	100.5	17.1	350	7	US-11-103-195-8	Sequence 8, App
28	100.5	17.1	350	7	US-11-255-790-2	Sequence 2, App
29	98.5	16.7	349	7	US-11-255-790-17	Sequence 17, App
30	97	16.5	266	6	US-10-131-826A-428	Sequence 428, App
31	97	16.5	266	6	US-10-973-115B-428	Sequence 428, App
32	97	16.5	266	7	US-11-255-790-8	Sequence 8, App
33	97	16.5	280	6	US-10-821-234-1307	Sequence 1307, App
34	95.5	16.2	259	7	US-11-255-790-37	Sequence 37, App
35	83.5	14.2	508	6	US-10-915-160-2	Sequence 2, App
36	81.5	13.8	446	7	US-11-072-512-2665	Sequence 2665, App
37	81	13.8	1170	7	US-11-114-962-5	Sequence 5, App
38	79	13.4	1664	6	US-10-055-877-212	Sequence 212, App
39	75.5	12.8	1574	6	US-10-055-877-211	Sequence 211, App
40	75	12.7	1379	7	US-11-114-962-4	Sequence 4, App
41	74.5	12.6	451	6	US-10-915-160-6	Sequence 6, App
42	74	12.6	1620	6	US-10-055-877-213	Sequence 213, App
43	73.5	12.5	2440	6	US-10-766-317-10	Sequence 10, App
44	73	12.4	87	7	US-11-255-790-25	Sequence 25, App
45	73	12.4	235	7	US-11-126-126-16	Sequence 16, App

ALIGNMENTS

RESULT 1
US-10-131-826A-470
Sequence 470, Application US/10131826A
Publication No. US20050245730A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tuman, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C128
CURRENT APPLICATION NUMBER: US/10/131, 826A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
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PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 550
SEQ ID NO 470
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
US-10-131-826A-470

Query Match 100.0%; Score 589; DB 6; Length 105;
Best Local Similarity 100.0%; Pred. No. 2.5e-56;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLRMCTPLGRGEEBC 60
DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLRMCTPLGRGEEBC 60
QY 61 HPGSHKVPFFRKRRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105
DB 61 HPGSHKVPFFRKRRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105

RESULT 2
US-10-973-115B-470
Sequence 470, Application US/10973115B
Publication No. US20060040351A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Oulang
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tuma, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING
TITLE OF INVENTION: SAME
FILE REFERENCE: 39870-3330R1C300C1
CURRENT APPLICATION NUMBER: US/10/973,115B
CURRENT FILING DATE: 2004-10-22
PRIOR APPLICATION NUMBER: US 10/145,747
PRIOR FILING DATE: 2002-05-14
PRIOR APPLICATION NUMBER: US 10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/581,742
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: PCT/US00/05746
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/135,736
PRIOR FILING DATE: 1999-05-25
PRIOR APPLICATION NUMBER: US 60/123,090
PRIOR FILING DATE: 1999-03-05
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 470
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
US-10-973-115B-470

Query Match 100.0%; Score 589; DB 6; Length 105;
Best Local Similarity 100.0%; Pred. No. 2.5e-56;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCAISLWRLRMCTPLGRGEEBC 60
QY 61 HPGSHKVPFFRKRRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105
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RESULT 3
US-10-475-075-194
Sequence 194, Application US/10475075
Publication No. US20060053498A1
GENERAL INFORMATION:

APPLICANT: Bejani, Stephanie
APPLICANT: Tanaka, Hiroaki
APPLICANT: Dumas Malne Edwards, Jean-Baptiste
APPLICANT: Jobert, Severin
APPLICANT: Giordano, Jean-Yves
TITLE OF INVENTION: Full-length human cDNAs encoding potentially secreted proteins
FILE REFERENCE: G-081US03PCT
CURRENT APPLICATION NUMBER: US/10/475,075
CURRENT FILING DATE: 2003-10-17
PRIOR APPLICATION NUMBER: PCT/IB01/00914
PRIOR FILING DATE: 2001-04-18
NUMBER OF SEQ ID NOS: 918
SOFTWARE: Patent.pm
SEQ ID NO 194
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -19..-1
OTHER INFORMATION: Von Heijne matrix
OTHER INFORMATION: seq VSIMLLVTVSDC/AV
US-10-475-075-194

Query Match 99.8%; Score 588; DB 6; Length 105;
Best Local Similarity 99.0%; Pred. No. 3.2e-56;
Matches 104; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY 61 HPGSHKVPFFRKRRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105
DB 61 HPGSHKVPFFRKRRKHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105

RESULT 4
US-10-475-075-193
Sequence 193, Application US/10475075
Publication No. US20060053498A1
GENERAL INFORMATION:

APPLICANT: Bejani, Stephanie
APPLICANT: Tanaka, Hiroaki
APPLICANT: Dumas Malne Edwards, Jean-Baptiste
APPLICANT: Jobert, Severin
APPLICANT: Giordano, Jean-Yves
TITLE OF INVENTION: Full-length human cDNAs encoding potentially secreted proteins
FILE REFERENCE: G-081US03PCT
CURRENT APPLICATION NUMBER: US/10/475,075
CURRENT FILING DATE: 2003-10-17
PRIOR APPLICATION NUMBER: PCT/IB01/00914
PRIOR FILING DATE: 2001-04-18
NUMBER OF SEQ ID NOS: 918
SOFTWARE: Patent.pm
SEQ ID NO 193
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens


```

FEATURE:
NAME/KEY: SIGNAL
LOCATION: -19...-1
OTHER INFORMATION: Von Heijne matrix
OTHER INFORMATION: score 7.20796835452081
OTHER INFORMATION: seq VSMILLVTVSDC/AV
FEATURE:
NAME/KEY: unsure
LOCATION: 37
OTHER INFORMATION: Xaa = Glu or *
US-10-475-075-193

```

```

Query Match      98.8%; Score 582; DB 6; Length 105;
Best Local Similarity 98.1%; Pred. No. 1.4e-55;
Matches 103; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Oy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60
    |||
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60

Oy 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105
    |||
Db 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105

```

RESULT 5

```

US-10-475-075-477
Sequence 477; Application US/10475075
Publication No. US20060053498A1

```

```

GENERAL INFORMATION:
APPLICANT: Benjamin, Stephane
APPLICANT: Tanaka, Hiroaki
APPLICANT: Dumas Milne Edwards, Jean-Baptiste
APPLICANT: Jobert, Severin
APPLICANT: Giordano, Jean-Yves
TITLE OF INVENTION: Full-length human cDNAs encoding potentially secreted proteins
FILE REFERENCE: G-0810S03PCT
CURRENT FILING DATE: 2003-10-17
PRIORITY FILING DATE: 2003-10-17
PRIORITY FILING DATE: PCT/IB01/00914
PRIORITY FILING DATE: 2001-04-18
NUMBER OF SEQ ID NOS: 918
SOFTWARE: Patent.ppt
SEQ ID NO 477
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -19...-1
FEATURE:
NAME/KEY: UNSURE
LOCATION: 37
OTHER INFORMATION: Xaa = Lys or *
US-10-475-075-477

```

```

Query Match      98.8%; Score 582; DB 6; Length 105;
Best Local Similarity 98.1%; Pred. No. 1.4e-55;
Matches 103; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Oy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60
    |||
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60

Oy 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105
    |||
Db 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105

```

RESULT 6

```

US-11-073-420-31
Sequence 31; Application US/11073420
Publication No. US20060019338A1

```

```

GENERAL INFORMATION:
APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
APPLICANT: Zhou, Qun-Yong
TITLE OF INVENTION: Primate Prokineticin and Prokineticin
TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
FILE REFERENCE: UCI1210-1
CURRENT FILING DATE: 2005-03-04
PRIORITY FILING DATE: 2005-03-04
PRIORITY FILING DATE: 2004-03-05
NUMBER OF SEQ ID NOS: 38
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 31
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
US-11-073-420-31

```

```

Query Match      98.5%; Score 580; DB 7; Length 105;
Best Local Similarity 98.1%; Pred. No. 2.3e-54;
Matches 103; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Oy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60
    |||
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60

Oy 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105
    |||
Db 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105

```

RESULT 7

```

US-11-073-420-28
Sequence 28; Application US/11073420
Publication No. US20060019338A1

```

```

GENERAL INFORMATION:
APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
APPLICANT: Zhou, Qun-Yong
TITLE OF INVENTION: Primate Prokineticin and Prokineticin
TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
FILE REFERENCE: UCI1210-1
CURRENT FILING DATE: 2005-03-04
PRIORITY FILING DATE: 2005-03-04
PRIORITY FILING DATE: 2004-03-05
NUMBER OF SEQ ID NOS: 38
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 28
LENGTH: 105
TYPE: PRT
ORGANISM: Macaca mulatta
FEATURE:
NAME/KEY: SIGNAL
LOCATION: (1)...(19)
US-11-073-420-28

```

```

Query Match      97.1%; Score 572; DB 7; Length 105;
Best Local Similarity 97.1%; Pred. No. 1.6e-54;
Matches 102; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Oy 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60
    |||
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCAIISLWRLGRLMCTPIGRGSEEC 60

Oy 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105
    |||
Db 61 HPGSHKVPFPRKRKHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105

```

RESULT 8

```

US-11-073-420-11
Sequence 11; Application US/11073420
Publication No. US20060019338A1

```

```

; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
; FILE REFERENCE: UC11210-1
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: US/11/073,420
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FaestSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-073-420-11

Query Match      84.6%; Score 498; DB 7; Length 86;
Best Local Similarity 100.0%; Pred. No. 1,2e-46;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 79
Db 1 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 60
Qy 80 CLPNLCSRFPDGRYRCMDLNINF 105
Db 61 CLPNLCSRFPDGRYRCMDLNINF 86

RESULT 9
US-11-073-420-12
; Sequence 12, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
; FILE REFERENCE: UC11210-1
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: US/11/073,420
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FaestSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Mus musculus
; US-11-073-420-12

Query Match      77.2%; Score 455; DB 7; Length 86;
Best Local Similarity 88.4%; Pred. No. 4,7e-42;
Matches 76; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

Qy 20 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 79
Db 1 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 60
Qy 80 CLPNLCSRFPDGRYRCMDLNINF 105
Db 61 CLPNLCSRFPDGRYRCMDLNINF 86

RESULT 10
US-11-073-420-17
; Sequence 17, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
```

```

; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
; FILE REFERENCE: UC11210-1
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: US/11/073,420
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FaestSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-073-420-17

Query Match      70.1%; Score 413; DB 7; Length 86;
Best Local Similarity 76.7%; Pred. No. 1,5e-37;
Matches 66; Conservative 12; Mismatches 8; Indels 0; Gaps 0;

Qy 20 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 79
Db 1 AVITGACDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 60
Qy 80 CLPNLCSRFPDGRYRCMDLNINF 105
Db 61 CLPNLCSRFPDGRYRCMDLNINF 86

RESULT 11
US-11-073-420-16
; Sequence 16, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
; FILE REFERENCE: UC11210-1
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: US/11/073,420
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FaestSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-073-420-16

Query Match      63.8%; Score 376; DB 7; Length 81;
Best Local Similarity 84.4%; Pred. No. 1,3e-33;
Matches 65; Conservative 2; Mismatches 10; Indels 0; Gaps 0;

Qy 20 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 79
Db 1 AVITGACERDVOCGAGTCCCAISLMLRGLMCTPLGRGEGECHPGSHKVPFRRKRKHTCP 60
Qy 80 CLPNLCSRFPDGRYRC 96
Db 61 CLPGLACLRFSFNRFC 77

RESULT 12
US-11-073-420-15
; Sequence 15, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; TITLE OF INVENTION: Receptor Polypeptides, Related Compositions and Methods
; FILE REFERENCE: UC11210-1
```

```

; CURRENT APPLICATION NUMBER: US/11/073,420
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: 60/550,753
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Serpentes Linnaeus
US-11-073-420-15

```

```

Query Match      53.5%; Score 315; DB 7; Length 80;
Best Local Similarity 62.3%; Pred. No. 4.3e-27;
Matches 48; Conservative 14; Mismatches 15; Indels 0; Gaps 0;

```

```

Qy      20 AVTGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVPFRKRKHHTCP 79
Db      1 AVTGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVPFRKRKHHTCP 60

```

```

Qy      80 CLPNLCSRFPDGRYRC 96
Db      61 CAPNLACVGTSPKPKFC 77

```

```

RESULT 13
US-11-073-420-6
; Sequence 6, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; FILE REFERENCE: UCI1210-1
; CURRENT APPLICATION NUMBER: US/11/073,420
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: 60/550,753
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Macaca mulatta
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(27)
US-11-073-420-6

```

```

Query Match      50.9%; Score 300; DB 7; Length 108;
Best Local Similarity 55.2%; Pred. No. 2.3e-25;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

```

```

Qy      10 MLTLTVSDCAVITGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVP 69
Db      18 LLTFRVGDAAVITGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVP 77

```

```

Qy      70 FRKRKHHTCPCLPNLCSRFPDGRYRC 96
Db      - 78 VGRRMHHTCPCLPNLCSRFPDGRYRC 104

```

```

RESULT 14
US-11-073-420-9
; Sequence 9, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; FILE REFERENCE: UCI1210-1

```

```

; CURRENT APPLICATION NUMBER: US/11/073,420
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: 60/550,753
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-073-420-9

```

```

Query Match      49.4%; Score 291; DB 7; Length 81;
Best Local Similarity 58.4%; Pred. No. 1.6e-24;
Matches 45; Conservative 14; Mismatches 18; Indels 0; Gaps 0;

```

```

Qy      20 AVTGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVPFRKRKHHTCP 79
Db      1 AVTGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVPFRKRKHHTCP 60

```

```

Qy      80 CLPNLCSRFPDGRYRC 96
Db      61 CLPGLACTRTSFNRFIC 77

```

```

RESULT 15
US-11-073-420-10
; Sequence 10, Application US/11073420
; Publication No. US20060019338A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Primate Prokineticin and Prokineticin
; FILE REFERENCE: UCI1210-1
; CURRENT APPLICATION NUMBER: US/11/073,420
; CURRENT FILING DATE: 2005-03-04
; PRIOR APPLICATION NUMBER: 60/550,753
; PRIOR FILING DATE: 2004-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-073-420-10

```

```

Query Match      48.6%; Score 286; DB 7; Length 80;
Best Local Similarity 57.1%; Pred. No. 5.5e-24;
Matches 44; Conservative 15; Mismatches 18; Indels 0; Gaps 0;

```

```

Qy      20 AVTGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVPFRKRKHHTCP 79
Db      1 AVTGACRDVQCGAGTCCALISLWLRGRLMCTPLGRGEGECHPGSHKVPFRKRKHHTCP 60

```

```

Qy      80 CLPNLCSRFPDGRYRC 96
Db      61 CLPGLACTRTSFNRFIC 77

```

```

Search completed: March 30, 2006, 17:50:37
Job time : 26 secs

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